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THE CHEMIST AND DRUGGIST

ESTAB. 1859

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No. 2136 JANUARY 1, 1921. VOL. XCIV.

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42 CANNON ST.
LONDON E.C. 4

MARCH 26, 1921

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We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an Advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers' correspondents in this country.

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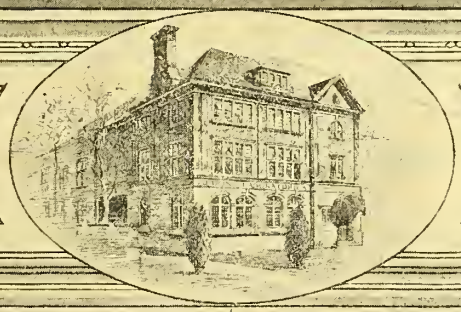

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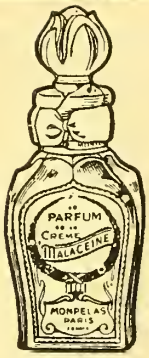

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WHIPMAN, P., & CO., LD., *Drugs and Chemicals* vi
WHITE BAND MNFG. CO., *Tablets* xix
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Telephones: London Wall 4391, & Bank 275 Cable Address: "TAARINCO, LONDON."

THE EASTERN & RUSSIAN TRADING COMPANY, LIMITED,

8 Drapers Gardens, Throgmorton Avenue, London, E.C. 2.

Representatives and Agents in France, Holland, Italy, Germany, Turkey, Palestine, India, Siberia, Japan, and U.S.A.

General Agents of I. L. GOLDBERG, Petrograd, Vilna, Odessa, Moscow.

The exclusive exporter and distributor of

SANTONINE

From Russia to the whole world.

Inquiries solicited also for

RUSSIAN CRUDE DRUGS

Wormseed (Semen Contra) Aniseed Elderflowers

Lycopodium Ergot of Rye Boletus Cervinus

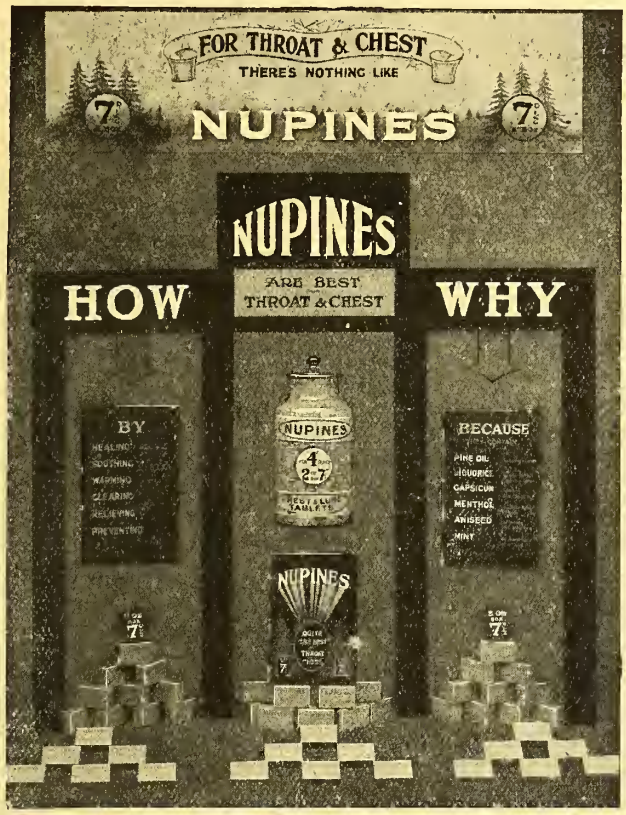
Elecampane Root Liquorice Root Calamus Root Snap Root

Gum Ammonia Gum Galbanum Gum Tragacanth

Henbane Leaves Frangula Bark Cantharides Blood Albumine

Anise Oil Coriander Oil

STOCKS IN LONDON & AT THE PRINCIPAL AGENCIES.



The "Busy" Pharmacists Window

THEY COST
28 lb. 2/1 lb. ; 56 lb. 2/- lb. ;
1 cwt. 1/11 lb.

COMPLETE SHOW & 200 CARTONS FREE with 56 lb.

NUPINES : *The World's Pine Tablet*

There must be a reason why we make and sell so many tons of this popular Pine Tablet. In fact, there are several : Pleasant to the taste ; do not break up in the mouth but slowly dissolve right down to a wafer ; a window display that talks the goods ; and last, but not least, a good guaranteed profit for YOU.

Displays now running in nearly every town in the United Kingdom. Keep a good stock.

MOORLAND PHARMACY SERVICE

W·B·CARTWRIGHT·LTD.

RAWDON MOORLAND BRAND Nr. LEEDS

QUININE

MAARSSEN

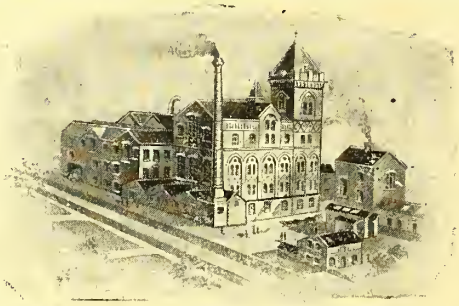
QUININE and QUININE SALTS.

Unexcelled in Uniformity of Quality,
Brilliant Crystallisation and Purity of Colour.

CINCHONINE, CINCHONIDINE, QUINIDINE,
and their SALTS.

NEDERLANDSCHE KININEFABRIEK, MAARSSEN, HOLLAND

AGENTS:— R. W. Greeff and Company, Ltd.
Thames House, Queen Street Place,
LONDON, E.C.4.

"John  Bull"
(REGD.)

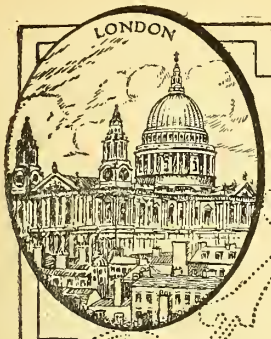
MALT EXTRACT
and
COD LIVER OIL

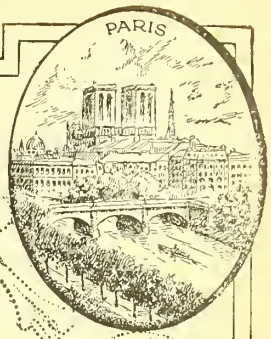
IS THE BEST!!

Supplied in Bulk, Jars, Cardboard Containers, &c., for Wholesale and Export only.

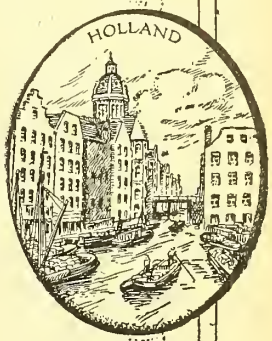
MALT EXTRACT POWDER. MALT FLOUR for INFANTS' and INVALIDS' FOODS.

PAINE & CO., LTD., ST. NEOTS, HUNTS.

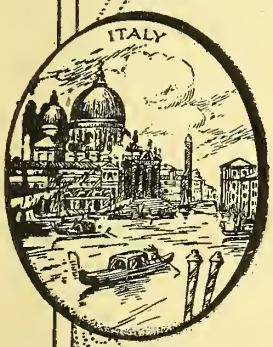




Pharmaceutical and Photographic Products



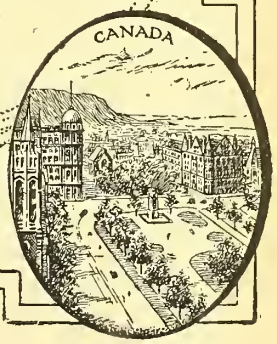
R. W. Greeff & Co., Ltd., desire to convey their Hearty Good Wishes for a Prosperous New Year.



R. W. Greeff & Co., Ltd.
THAMES HOUSE, QUEEN ST. PLACE,
LONDON, E.C.

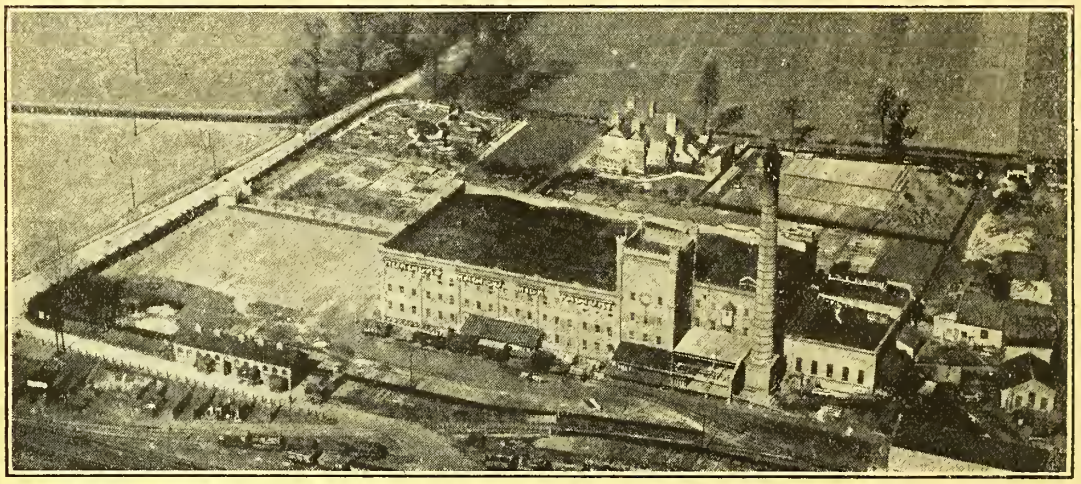
MANCHESTER BRANCH:
Lloyds Bank Buildings,
King Street

Also at NEW YORK:
R. W. Greeff & Co., Inc.
80 Maiden Lane.



HORLICK'S MALTED MILK

THE ORIGINAL



An aerial view of the works at Slough, Buckingham, England, where all the

HORLICK'S MALTED MILK

Supplied in Great Britain is Produced.

PRICE PROTECTED - - 2/-, 3/6, 15/-

Attractive Advertising Material Free and Carriage Paid on application to

HORLICK'S MALTED MILK CO.

SLOUGH, BUCKS, ENGLAND.

(Sir James Horlick, Bart., President.)

Maw's Page

January 1, 1921 No. 481.

New Year Resolutions

It is a fine old-fashioned custom, this making of New Year Resolutions. Even those of us who take ourselves very seriously, and pretend that we are above such trifles, are inclined to indulge, during the last few days of the year, in a good deal of introspection and retrospection, and to make a number of secret compacts with ourselves regarding our conduct during the coming year.

Business is by no means excluded at these times, and we suggest the following as a resolution which should occupy a prominent place in the New Year Lists of all Pharmacists :—

Resolved—

Because "Parex" is the Chemist's word ; Because "Parex" goods are sold only to Chemists ; Because the word "Parex" protects the Chemist from outside competition ; Because "Parex" is synonymous with high quality ; Because, in short, it helps the business of Pharmacy and at the same time pays best to sell "Parex" Toilet and Manicure Requisites————

Therefore I will concentrate on "Parex" goods during 1921, and push them at every possible opportunity.

Telephone: "City 7" (Private Branch Exchange).

S. Maw, Son & Sons, Ltd., 7/12 Aldersgate St., London, E.C.1.

Telegrams: "Eleven Cent, London."

PRICE REDUCED!

METHYLATED SPIRIT
METHYLATED SPIRIT
METHYLATED SPIRIT

Finest British Distilled Spirit. *Quality is Vital.*
Direct from the Fountain Head.
No other make is equal to ours.

The benefit of the economy effected by delivery from our Central Branches and the reduction in Working Costs is being given ABSOLUTELY to the Purchaser.

IMMEDIATE DELIVERY ASSURED

from the following Depots:

LONDON, BRISTOL, EXETER, MANCHESTER, LIVERPOOL, GLASGOW, NEWCASTLE-ON-TYNE, LEITH.

Please address all communications to Head Offices—

The Methylating Co. Ltd.,

Finsbury Court, Finsbury Pavement, London, E.C.2.

METHYLATED SPIRIT
METHYLATED SPIRIT
METHYLATED SPIRIT

REDUCTION IN PRICE!

Profit by selling Doan's

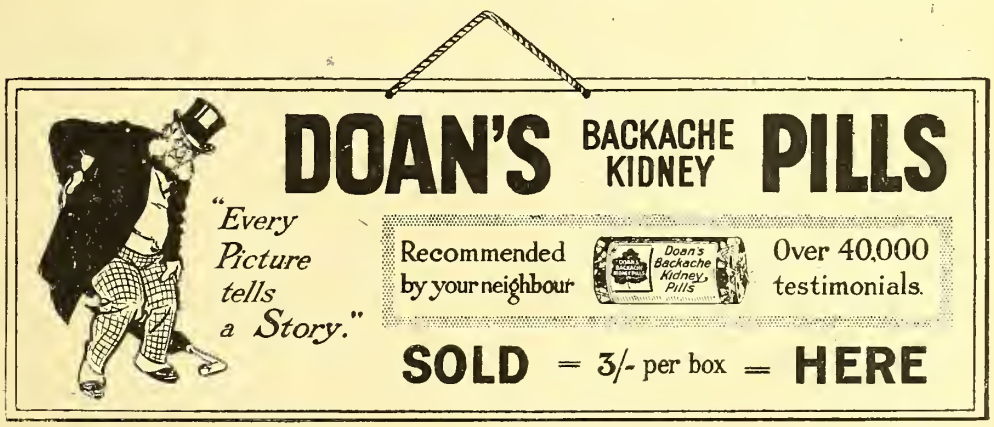
Purchased in six-dozen lots there is a gross profit of **£3 : 0 : 0** to the Retailer. Based on a sale of only twelve boxes a week, Doan's Pills mean an annual gross profit to you of **£26 : 0 : 0**

There's no Dead Stock

We guarantee to exchange, or refund in full for, unsold or damaged stock returned to us. This, and the steady demand for Doan's Preparations entirely eliminate all risk of the Retailer having to carry Dead Stock.

Let us send you our Pictorial Showcard.

Size 16½ in. long by 5¾ in. deep



For Shop-front display Doan's Thermometer will be sent on request.

FOSTER-McCLELLAN CO. Manufacturing Chemists,

8 Wells Street, Oxford St. - LONDON, W. 1

For JUST what YOU WANT

IN

GLASSWARE

OF EVERY DESCRIPTION and FOR ALL PURPOSES

JULES LANG & SON hold stocks in the Provinces ready for immediate delivery, and in their North and West London Depots.

No other firm can claim to hold such a general stock in the Kingdom. NEARLY all your needs can be met on request: Limes, Medicals, Vials, Tobins, Mexicans, Cheltenhams, Male and Ear Syringes, Kalis, Opal Pomades, Flint Pomades, Smelling Salts, Panels, Cannons.

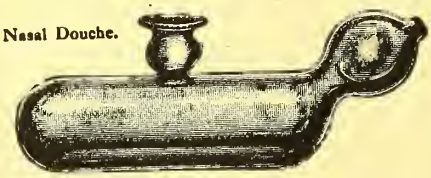
Kali

Lime

Medical

Tubes of all sizes, Test Tubes, Douche Linings, Burettes, Separating Funnels and many other lines in Chemical and Laboratory Glassware.

Nasal Douche.



Two-ended Feeder.

SPECIAL NOTICE to our PROVINCIAL CUSTOMERS.

We have stocks of 4-oz. Plain and Graduated Medicals, tinted, in Hull, which we are offering at **15/6** per gross net, free Hull. Also 3-oz. at **12/-** per gross, net, free Hull.

WHOLESALE ONLY. NO RETAIL FIRMS SUPPLIED.

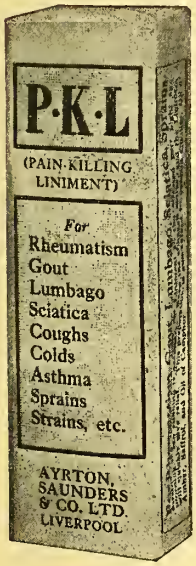
JULES LANG & SON

Charlton Works, Charlton Place, Islington, LONDON, N. 1.

Telephones: North 2770-2 (three lines). *Telegrams:* "Assorted, Phone, London."

AYRTON'S WEEKLY PAGE 15

A Proposition worth considering !



Write for specimen letter and blotter, which we will post to fifty of your Customers directing them to your pharmacy for their supplies of

P·K·L

(Pain-Killing Liniment)

The modern Liniment which needs no rubbing.

It is guaranteed to contain Chillies, Oil of Amber, Saffrol and Oil of Camphor.

Packed in 3oz. bottles, neatly labelled and wrapped.

Retail, P.A.T.A. - - - - - - - **1/6**
Wholesale - - - - - - per dozen **12/-**

Showcards, testimonial cards and window poster will be sent with all orders on request.

London Agents—
J. C. GAMBLES & CO.
49 FARRINGDON STREET
LONDON, E.C. 4

AYRTON, SAUNDERS & CO. LTD

Manufacturing Chemists **LIVERPOOL**

POISONS and PHARMACY ACT.

Privy Council Order, Jan. 1, 1921.

Dr. J. Collis Browne's CHLORODYNE

is not affected by the above Order and therefore

does not require purchaser's signature

J. T. DAVENPORT LTD., Proprietors, 117 Union Street, S.E. 1.

New Wholesale & Retail Prices

TO THE PUBLIC AT FACE VALUE

ON AND AFTER JANUARY 1, 1921, PRICES WILL BE AS FOLLOWS:

6d. size.	**Price to Wholesaler,**	**from 42/- to 44/- per gross.**
	Minimum Price to Retailer,	**from 4/- to 4/3 per dozen.**
	Minimum Price to Public,	**from 5½d. to 6d. per bottle.**
1/- size.	**Price to Wholesaler,**	**from 77/- to 80/- per gross.**
	Minimum Price to Retailer,	**from 7/6 to 8/- per dozen.**
	Minimum Price to Public,	**from 11d. to 1/- per bottle.**

Shows Wholesalers 13½% on turnover, plus quantity discount.
Shows Retailers 30% on turnover on the 6d. size, and 33⅓% on the 1/- size.

CARRIAGE PAID ON PARCELS OF £2.4.0 AND UPWARDS

Minimum order at wholesale rates, one gross of 6d. or assorted order to same value, subject to the customary discount on quantities.

Terms: One Month current account.

JOHN BOND'S "Crystal Palace" Marking Ink

75 Southgate Road - - - - LONDON, N.1.

"SALASPIN"

(Regd. Trade Mark.)

is the British Standard Remedy for Nerve Pains and Rheumatism.

"SALASPIN" is restricted to Chemists and Druggists, and their profit on its sale is carefully protected. No product bearing this name can be sold at cut prices by Grocers and other general traders—a customer for "Salaspin" once is a customer for "Salaspin" always.

"SALASPIN" is packed in bottles containing 25 and 100 tablets, retailing at the P.A.T.A. prices of 1/- and 3/- Trade prices and samples on application.

THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

Buy from the Actual Distillers.

EUCALYPTUS OILS

B.P. and U.S.P. **60/65%., 70%. 75/80%.**

EUCALYPTUS AMYGDALINA
EUCALYPTUS CITRIODORA
EUCALYPTOL (CINEOL)

We will quote you C.I.F. afloat or ex London Stocks.

GILLARD GORDON, LTD.

(Amalgamated with Burnside & Co.)

HEAD OFFICES - SYDNEY.

LONDON OFFICES : 7 Drapers Gardens, Throgmorton Avenue, London, E.C. 2

Telephone No.: London Wall 8237.

To our friends, both at Home and Abroad!

HAPPY AND PROSPEROUS NEW YEAR!

We hope to continue our business relationships with you all in the same harmonious way as of past years.

This New Year, 1921, we have made the resolution to beat all previous records as the leading house for printed matter, smart designs and neat workmanship.

ALF. HARRISON & SONS,
Advertising Specialists and Chemists' Printers,
224 Burley Road, LEEDS.
Telegrams: "Ideas Leeds." *Tel. No. 26674.*

Shipkoff's Pure Otto of Rose

The TEST of Cheapness is QUALITY—not PRICE

SHIPKOFF'S OTTO OF ROSE is the Cheapest, because it is the *Best Otto* in the market. It is the *Standard Brand*—always *pure, uniform* and *one quality only*. Before placing your contract, be sure to get Shipkoff's sample and price, and try it. Original Sample Coppers in 1, 2 and 4-oz. sizes.

ONCE TRIED—ALWAYS USED.

Highest Awards at all Universal Expositions, including Four Grand Prizes.

Shipkoff & Co., Kazanlik, Bulgaria.

BRANCH OFFICE IN SOFIA.

Model Steam Factories in Kazanlik, Kalofer, Kerlovo and Rahmenlari. London Depot—

G. P. & J. BAKER, LTD., 5 Giltspur St., Newgate St., E.C. 1.

PURE

BULGARIAN OTTO DE ROSE

STOCKS HELD IN LONDON SOLD UNDER OUR GUARANTEE

F. & A. Swanzy Limited
West Africa House, Kingsway
London, W.C. 2

C&Co Ltd TRADE MARK

MAKE SURE OF YOUR SUPPLIES of

UNIVERSAL EMBROCATION

—The EMBROCATION with a REPUTATION.

A permanent Egg Emulsion of Turpentine, Acetic Acid and Methyl Salicylate.

E 640. 4-oz. bottles, per doz. **8/6**

E 642. 4-oz. bottles, in cartons, as illustrated ,, **10/3**

Ditto per gross **117/-**

In bulk, **11/-** per gallon.

Gross quantities printed with customer's name.

Cuxson, Gerrard & Co.

LIMITED

OLDBURY, near Birmingham

Export and Colonial Inquiries Invited

South African Agents:
All-British Agency Co.,
10 Main Street, Port Elizabeth.

BUILT ON A FIRM FOUNDATION
OF

GOOD WILL

WE CAN WITH ALL
SINCERITY SEND OUR

GOOD WISHES

TO THE TRADE FOR A NEW

YEAR OF PROSPERITY

Carnegie Bros. Essex Rd., London, N.

Works: BOWES PARK, N.

Chemicals & Drugs of Standard Purity

Acetanilid
Acid Acetyl Salicylic
" Benzoic
" Lactic Conc.
" Salicylic
" Tannic
Aloin
Amidopyrin
Araroba
Arecoline
Atropine
Barbitone
Bromides
Caffeine
Chloral
Chrysarobin
Emetine

Eserine
Guaiacol Pure
Guaiacol Carbonate
Hexamine
Homatropine
Hydroquinone
Lithia Salts
Menthol
Methyl Sulphonal
Paraldehyde
Phenacetin
Phenazone
Phenolphthalein
Pilocarpine
Podophyllin
Potassium Sulphoguaiacol

Quinine
Resorcin
Salicine
Salipyrin
Salol
Santonine
Scammony Resin
Sodium Benzoate
" Salicylate
Sparteine
Strychnine
Sulphonal
Terpinhydrate
Theobromine
Thymol
Vanillin
Veratrine,
&c.

Carnegie Bros.

Contractors to H.M. Government.

227–229 ESSEX ROAD,
LONDON, N. - - - Works: BOWES PARK, N.
Telegrams: "Carnebros, Phone, London." *A.B.C. Code, 5th Edition.*
Telephones: Dalston 3560 (2 lines).

INQUIRIES AND CORRESPONDENCE INVITED.

WHOLESALE AND EXPORT ONLY.

The Same to you!

SEPARATED by distance, maybe; but let's shake hands, friend. Travellers all, we need each other's help.

What the year holds for any of us—we do not know. *One* thing we know—"He profits most who serves best." In this confidence we face the future full of hope, for service has ever been our aim.

PYRAMID CORKS

Continue to represent the most your money can buy.
Samples first, if desired.

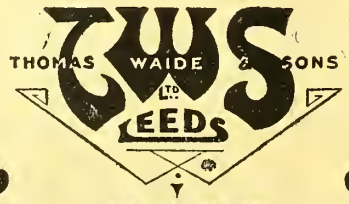
N. W. Mitchell & Sons, Ltd.

Limehouse, *"The Cork Firm"* London, E. 14.

A Prosperous New Year

This is THOMAS WAIDE & SONS' wish to the Chemists of the United Kingdom. Not only do we *wish* you a Prosperous New Year, but we can help you in a large measure to *obtain* that prosperity. True, we cannot come and sell your goods over the counter for you, but we can supply you with such advertising matter—Labels, Cartons, etc., for the packing and putting-up of your lines—that selling them will be made quite easy. Again, "A Prosperous New Year to you all." . . . . .

Full set of Samples to Colonies charged 10/6, *which is credited on orders of* £10 *and upwards.*



Write us and let us help you to prosper.

JANUARY

19 1 21

A New Year's Resolution:

From Jan. 1—ana onwards, write to—

The Clayton Aniline Co.

for

QUOTATIONS for

Dispensing Chemicals.

THE CLAYTON ANILINE CO., LTD.

(Chemical Department)

68½ UPPER THAMES STREET · E.C. 4

December 31st 1920.

"Thanking you for past favours"

We wish to take this opportunity of expressing our sincere thanks to all our friends for their favours during the past year.

January 1st 1921.

"WITH BEST WISHES FOR THE COMING YEAR."

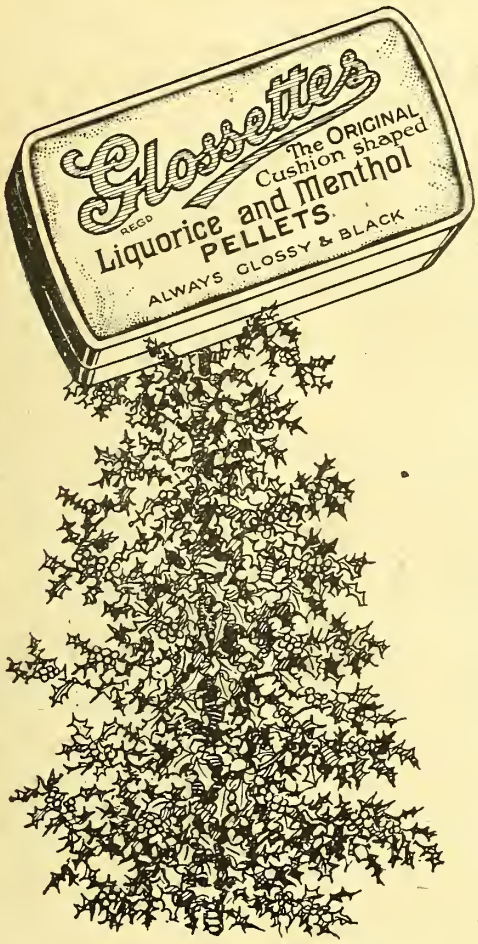
We wish all our friends a "Happy and Prosperous New Year," and trust that the same cordial relations which have existed in the past, will continue in the future.

C. R. Harker, Stagg & Morgan, Ltd.,

Devon Wharf and Bell Wharf,

EMMOTT ST., MILE END - - - LONDON, E.1.

ADD TO YOUR PROSPERITY



by making a
WINDOW - SHOW
of
THE ORIGINAL
Cushion - shaped
LIQUORICE & MENTHOL PELLETS

SPECIMEN £5 ORDER.

			Retail Value
½ gross 9d. tins @ 6/- doz.	...	£1 16 0	£2 14 0
1½ „ 4½d. „ @ 3/3 „	...	£2 18 6	£4 1 0
1-lb. in bulk @ 5/6 ...	...	5 6	10 8
BONUS			
1-doz. 9d tins ...	...	...	9 0
1 „ 4½d. „ ...	...	...	4 6
		Total Cost £5 0 0	£7 19 2
			PROFIT £2 19 2

5% Discount 7 days.
2½% „ 1 month.

59% PROFIT

STILL AT THE TOP OF THE TREE

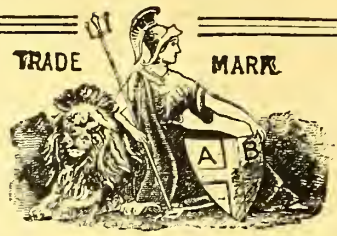
EFFECTIVE DISPLAY MATERIAL & BONUS on assorted orders for £5

Wishing you Happiness and Prosperity in the New Year.

ERNEST JACKSON & CO., LTD.

LONDON DEPOT:
Plantain Place, Crosby Row.
BOROUGH, LONDON, S.E.
Telephone - HOP 2668

OFFICES & LABORATORIES:
CREDITON, DEVON.
Telephone: Crediton 10



To our Friends

Hearty Greetings & Best Wishes

MR. B. JONES.

MR. F. TOUGH.

MR. E. WOODHEAD.

MR. ARTHUR BERTON, Governing Director.

MR. A. WESTLAND.

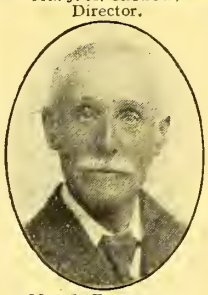
MR. R. S. CATLOW, Director.

MR. H. BERTON Managing Director.

MR. P. HAYWARD.

MR. J. H. CATLOW, Director.

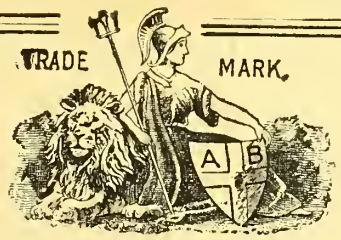
MR. W. WELSH.


MR. J. FERGUSON.

MR. A. W. COSTER.

From the Directors, Departmental Managers,

ARTHUR BERTON, LTD.,



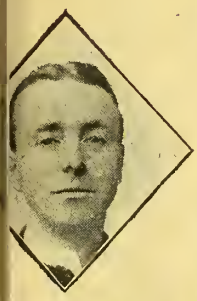
at Home & Abroad

or a Happy and Prosperous New Year

MR. F. W. LE GROVE.

MR. F. RUSSELL.

MR. S. M. KINNEAR.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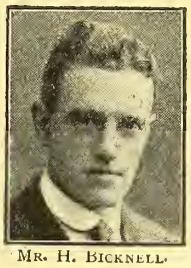
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THE
CHEMIST & DRUGGIST
(Established 1859)

THE
CHEMIST & DRUGGIST
DIARY

New Year 1921

GREETINGS AND GOODWILL
TO ALL IN PHARMACY AND
IN THE DRUG, CHEMICAL AND
ALLIED TRADES THE WORLD
OVER

42 Cannon Street
London, E.C. 4

THE
CHEMIST & DRUGGIST
SUPPLEMENT

THE
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THE 1921 GOOD RESOLUTION!

THIS SPECIMEN £5 CARRIAGE PAID ORDER, SHOWING A NET PROFIT OF 88% ON COST

carries with it show-outers, show-cards, window transparencies and 100 32-page illustrated booklets with chemist's name and address (for first orders).

		Cost P.A.T.A.	Selling Price P.A.T.A. £ s d
2 doz.	Elco Borated Dusting Powder @ 8/6 ...	17/-	1 10 0
½ doz.	Elco Cough Syrup @ 13/6	6/9	10 6
1 doz.	Elco Emulsion of Cod Liver Oil (6 oz.) @ 14/6	14/6	1 7 0
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1 doz.	Elco Chilblain Tablets (25's) @ 6/-	6/-	12 0
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½ doz.	Elco Household Embrocation (4 oz.) @ 13/10	6/11	10 6
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1 doz.	Elco Tooth Powder @ 13/-	13/-	1 1 0
1 doz.	Elco Vanishing Cream @ 11/6 ...	11/6	1 1 0
		£5 1 5	£9 1 6
	Less 5% Discount ...	5 1	
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PROFIT ON COST 88%.

EVANS SONS LESCHER & WEBB Ltd.
LIVERPOOL NEW YORK LONDON

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A WISE RESOLUTION!

"Stock only good branded Perfumery this year."

A pretty line of doubtful quality, a half-a-dozen only of this, that and the other—such orders don't lead to big profits or repeat business. A bold purchase of a good branded article has the right effect.

"De Luzy"

IS BRANDED—GOOD—AND PROFITABLE.

POUDRE
10½d. 1/9 3/3
Less 33⅓ %

CRÈME
1/3 2/6 3/9
Less 33⅓ %

PARFUM
Flower Odours, 5/- & 14/6
Less 33⅓ %

WE AWAIT YOUR ENQUIRIES AND ORDERS.

W. H. CALNAN & CO., Ltd., 30-32 Ludgate Hill, E.C. 4.

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THE "D & O" BRAND

is the "Standard of Quality" for

OILS of BAY, CEDARWOOD, PATCHOULI, PEPPERMINT, SASSAFRAS, ETC.
BALSAMS of Copaiba, Peru, Tolu,
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The Winning Perfume—Fragrance of Midsummer Roses.

In three sizes	*Wholesale*	*Retail*
Small ...	28/- doz. ...	3/6
Medium ...	48/- „ ...	6/-
Large ...	168/- „ ...	21/-

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The EVAN-WILLIAMS Co., Ltd.

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LIMITED

DIRECTORS—

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Send Best Wishes for a Happy and Prosperous New Year to all their friends in the Drug Trade

WHOLESALE AND EXPORT DRUGGISTS

BRISTOL AND EXETER

TERPENELESS OILS
BRITISH MADE

We manufacture exclusively ourselves all kinds of Terpeneless Oils, and invite inquiries from users throughout the world.

WE SPECIALISE IN TERPENELESS:

Anise (Anethol)
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Cinnamon
Clove
Dill
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Ginger
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LEMON - BERGAMOT
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SPINELLI

The Oils that have a Long Reputation for Quality.

In the manufacture of our Terpeneless Oils it was imperative that we secured the very finest Sicilian Oils to work upon. After several exhaustive tests we came to the conclusion that the "SPINELLI" brand of Sicilian Oils gave us the best results. As we were able to place large orders for our own needs with the manufacturers, we have pleasure in stating that they have entrusted us with their British Agency, and we offer to users of Sicilian Oils the benefit of our experience. There is a quality in every package. Guaranteed Genuine Oils of authentic origin, and to conform to any analysis as to purity.

HOLLANDS DISTILLERY LTD.
Lavington Street, Southwark, LONDON, S.E. 1.

A B C Code, 5th Edition.
Western Union.

Telegrams: "LANDSLOH LONDON."
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AUSTRALIAN AGENTS.—OURY, MILLAR & CO., LTD., 350 Kent Street, SYDNEY.
INDIAN AGENT.—Mr. W. CARR, c/o GRINDLAY & CO., BOMBAY.

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ESSENTIAL, Etc.

Amber
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Angelica
Bay
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Calamus
Cananga
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Cassia
Cedarwood
Chamomiles, Ang.
Cinnamon
Citronella
Cloves, Ang.
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Fennel
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Courtin & Warner

CHEMICALS, DRUGS, ESSENTIAL OILS, SYNTHETICS, Etc. Etc.

FOR

Wholesale Chemists, Druggists, Soap Makers, Confectioners and Allied Trades.

List of Synthetics, etc., will appear in next issue.

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Lemon
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(2)

ESSENFLOUR PRODUCTS LTD.

MYSORE (S. INDIA)

Distillers of Essential Oils and Manufacturers of Perfumery Products

AMBRETTE SEED OIL
CARDAMOM OIL
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NEROLI BIGARADE

TERPENELESS ESSENTIAL OILS

"Tank" Brand.

PURE SICILIAN ESSENTIAL OILS

The Best on the Market

EXPORTATION THROUGHOUT THE WORLD

GIUSEPPE MACAJONE, MILANO

Via Canova 25 (Italy)

MENTHOL CRYSTALS
PEPPERMINT OIL

We are at all times in position to quote c.i.f. Send us your inquiries by cable. We sell all brands, but, unless otherwise specified, we ship "J.M." Brand, which we sell under our guarantee that chemical analysis will prove it in every respect as pure as any.

Remember that we are entirely British-American owned and operated.

THE MUTUAL TRADERS

24 NAKAYAMATE-DORI, 2 CHOME, KOBE, JAPAN.

Cable Address: "SIMSLAND."

(9)

SAPON SOAP

DELIGHTFUL TO USE—PROFITABLE TO SELL—
PERFECT FOR THE SKIN.

After searching investigation and exhaustive tests by a committee appointed for these specific purposes, "SAPON" SOAPS have been awarded

THE GOLD MEDAL

At the BRISTOL EXHIBITION, Nov. 13, 1920

We are in no way connected with any combine of soap makers.

BETTER SOAPS—BETTER PROFITS.

WRITE FOR PRICE LIST. OR PHONE 934 BANK.

SAPON SOAPS LTD., LONDON BRIDGE, E.C.4.

30/- Sales with plenty of Profit

SCOTT'S
BATH SALT
FOR STOUT PEOPLE

Advertised in Nash's Magazine, Fashions for All, Coming Fashions, Ladies' Field. &c.

1/- per box. 10/6 per doz
36 boxes 30/-.
72/- per gross, carr. paid with Showcards.

Scott's Chemical Co.,
47, HUDDLESTONE RD.,
LONDON, N.W.2

Actual Size.

By COMMON CONSENT
THE PREMIER
for giving
BRILLIANT, LASTING POLISH
to the
FINGER NAILS.

DAINTY HINGED
ALUMINIUM BOXES
WITH FULL DIRECTIONS
PER **6/-** *DOZEN.*
IN SHOW BOXES OF ONE DOZEN.
Manufactured by
SOLPORT BROS., LTD.
184-190 Goswell Road, LONDON, E.C.1
Obtainable through all Wholesale Houses.

Our new 3-tablet box helps you to sell more soap. It also makes a most attractive display.

Pears

A. & F. Pears, Ltd., 71-75, New Oxford Street, London, W.C. 1.

DEARBORN

LIMITED

37 Gray's Inn Road, LONDON, W.C.

Toilet Specialities.

	Price per doz. to Retailer.	Selling Price P.A.T.A.
PILENTA SOAP - A complexion soap.	10/-	1/-
PROLACTUM - - For the lips.	10/-	1/-
PARSIDIUM JELLY For wrinkles.	10/-	1/-
ALLACITE of ORANGE BLOSSOM A dressing cream.	22/6	2/6
BORANIUM - - A hair tonic.	22/6	2/6
CLEMINITE - - For a face lotion.	22/6	2/6
COLLIANDUM - - For a face tint.	22/6	2/6
PERGOL - - - A deodorant.	22/6	2/6
STALLAX - - - For a shampoo.	22/6	2/6
JETTALINE - - For clearing the skin.	31/6	3/6
PHEMINOL - - A depilatory.	36/-	4/-
MENNALINE - - For the eyelashes.	36/-	4/-
MERCOLIZED WAX A face cream.	31/6	3/6
STYMOL - - - For oily complexions and blackheads	36/-	4/-
BARSYDE - - Dandruff eradicator.	22/6	2/6
TAMMALITE - - For grey or faded hair.	22/6	2/6
LIQUID PERGOL - To check excessive prespiration locally.	31/6	3/6
BICROLIUM - - For whitening the hands.	22/6	2/6
HARAPOSA - - Nut oil shampoo.	22/6	2/6

STOCKED BY ALL WHOLESALE HOUSES

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'RECAMIER' Toilet Productions.

ACKNOWLEDGED TO BE UNIQUE.

Chemists can recommend them with confidence, and they carry a good profit. Just the thing for your Xmas trade.

Enquiries Invited.

PRICES:

Crème Recamier, 1/6, 3/- and 5/6
Savon Recamier, 1/3 tab., 3/6 3-tabs.
Crème de la Harem, 1/3, 2/6 and 4/6
Special Face Powder, 1/9 and 3/-

We will supply Chemists with a Few Samples and Counter Literature Gratis.

Recamier Toilet Products Co.
4 ST. JAMES'S STREET, LONDON, S.W.1

Mr. Geo. R. Sims' "Tatcho" and "Tatcho-tone."
A big vigorous, impressive advertising campaign, covering the whole of the British Isles, is now being pursued. A vastly increased volume of business is inevitable. Generous profit to the trade has been arranged.

TATCHO
THE HAIR GROWER
Price 2/9

Wholesale: **26/-** PER DOZEN.

TATCHO-TONE
FOR GREY HAIR
Price 4/6

Wholesale: **42/-** PER DOZEN.

GEO. R. SIMS' HAIR RESTORER CO.
5 Great Queen St., Kingsway, LONDON, W.C.2.

A *NEW* SIZE

OF

CALVERT'S

Carbolic Ointment

THE 2/3 TIN

has been brought out for the Home market, as the limited supplies of the 2/9 jars are quite inadequate to meet the demand.

To avoid delay and disappointment, therefore, chemists are requested to order their supplies in tins (two sizes, 1/3 and 2/3 retail) instead of the 2/9 jars, which are not likely to be available.

Current Price List sent post free on request.

F. C. CALVERT & CO.,
MANCHESTER.

FOR LARGE BUYERS.

Bay Rhums

ALSO

Toilet Paraffins, Lime Creams, Shaving Sticks, Tooth Powders, Dental Creams, Vanishing Creams, Shampoo Powders, Pomade Hongroise, Brilliantines, Dry Shampoo (Liquid), and all Toilet Goods.

LOW PRICES for HIGH QUALITY.

C. A. STOKES & CO., Ltd.

Manufacturing Chemists and Perfumers,

11 ECLIPSOL WORKS, BRISTOL.

Sell it to Prevent Pyorrhea

When your customers say their gums are tender or bleeding, recommend Forhan's For the Gums, a specially prepared medicinal dentifrice combining preventative and curative qualities for the home treatment of Pyorrhea.

Following the prescriptions of dentists, who use it in conjunction with their instrumentation and our nation-wide magazine and newspaper campaign, Forhan's For the Gums is rapidly becoming the most popular dentifrice on the market. It keeps the teeth white and clean, the gums healthy, and, if used in time and used consistently, it positively prevents Pyorrhea.

Forhan's For the Gums is packed in double-size tubes, and keeps indefinitely without hardening. Forhan's will build goodwill for you. Prepare to benefit by our advertising by placing your order for Forhan's to-day. Displays available on request. Write for prices and full trade information.

Thos. Christy & Co.
4-12 Old Swan Lane,
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Ingram's MILKWEED CREAM

Has been CONSISTENTLY ADVERTISED in the best AMERICAN and CANADIAN PERIODICALS for twenty-five years.

A Medicinal Toilet Cream with a world-wide demand that is rapidly increasing. Two sizes

Prepaid Parcel Post to Great Britain and her Asiatic and African Colonies. Samples and store displays free with every order.

Ingram's Milkweed Cream
" Velveola Souveraine (Face Powder)
" Zodenta Paste for the Teeth
" Rouge, Light, Medium, Dark
" Perfume, 1 oz. assorted in fancy packages

100 Guest-Room Packages free.

Shipped via Parcel Post Prepaid.

Send us with your order the names of 100 of your lady customers, and we will mail each of them a handsome folder, inviting them to call at your store and get our Guest Room Package free, containing one each of the above in sample sizes, including Perfume.

If more convenient to you, specify shipments from our Canadian Plant.

FREDERICK F. INGRAM COMPANY (Established 1885).
411 Lafayette Boulevard, Detroit, U.S.A. Canadian Plant: Windsor, Ont.

Twenty-five years' continuous advertising has made this trade mark known wherever American and Canadian publications are read.

BE SURE AND ADD

La-Rola Rose Bloom

TO YOUR STOCK AT ONCE,

as it is being largely advertised in the "Daily Mail," "Mirror," "Sketch," etc.

Do not lose the business through being out of stock.

It is the most natural tint on the market, and is selling well wherever introduced.

Lait La-Rola & Glycerine & Cucumber
supplied as usual.

All these articles are protected at FACE VALUE. Write for Display Terms and save 10%.

M. BEETHAM & SON, Cheltenham.

CURLASH

THE ORIGINAL ! ! ! *Regd. Trade Mark.*

Colourless, harmless Eyelash Food. Beneficial to the eyes.

EXTENSIVELY ADVERTISED.

P. A. T. A. 1/-, 1/9 & 3/6.

Terms:—32½% discount, any quantity, and 2½% for spot cash,

OF ALL WHOLESALE HOUSES.

Write to us direct for Showcards and Dummies.

For a small show in your window:—

OUR WINDOW-SHOW OFFER	3 doz. at 1/-	£1 16 0
	9 Free	0 0
	Returns	£2 5 0
	Outlay	£1 7 0
With Dummies and Show-Cards. Carriage Paid.	NET PROFIT 66¾%	18 0

THE BALDWIN MFG. CO., 37 Berners St., LONDON, W.1.

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Chemist and Druggist SUPPLEMENT

is an infallible help when you want to buy or sell a business, secure an agency, an assistant or a situation, or

SELL SURPLUS STOCKS.

The Tariff is printed on the front cover of the Coloured Supplement.

Address all inquiries to—
The Publisher: THE CHEMIST AND DRUGGIST,
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MIDGLEY'S EMOLLIENT CREAM SHAVING STICK

Superfatted—Pure—Emollient. Produces a close-clinging, ointment-like lather.

Full size stick in nickelled case and illuminated carton, advertised at 1/6 retail.

Cost per dozen - - 12/9

Refills—same size—in illuminated carton sine case, advertised at 1/- retail.

Cost per dozen - - 8/6

BONUS

3 dozen lots either standard, refill or assorted, carry ½-dozen refills free.

£5 lots 5%, £10 lots 7½%, assorted with other goods and carriage paid.

EVANS · SONS LESCHER & WEBB LTD

Wholesale Distributors - - - Liverpool, London & New York.

START THE NEW YEAR ON FRESH LINES

SPUN OINTMENTS
In new series of Decorated Tins.
Write for Quotations.

"NUXOCOL" LIQUID COCOA NUT OIL SHAMPOO
12/- doz. Sells 1/9
Showcard.

"NUXOCOL" COCOA NUT OIL SHAMPOO POWDER
24/- gross Sells at 4d.

BRILLIANTINE
New Series.

FRO-ZOF
An entirely new preparation for Corns.
Showcard.

JABORANDI OIL
For the Hair
New Brilliantine Hair Grower
Price 11/- doz. Sells at 1/9
Packed in Show Outers of 6.

Poudre Charme de Riz
An entirely new line, most profitable to handle.
3 sizes: 4½d. 1/- and 2/-
Cost: 36/- gr. 78/- gr. 144/- gr.

COLD CREAM
New design label.
In octagonal pots.
Beautifully packed. Fine Seller.

We pack everything necessary to a Chemist's Business.

ROBERT BLACKIE, Wholesale Manufacturing Chemist,
Shen Works, Tower Bridge Road London, S.E. 1

The three quick
SELLING LINES
with a good profit.

Anzora Cream for those with slightly greasy scalps, and
Anzora Viola, most suitable for those who have a dry scalp.
Anzora Beta-Naphthol Soap (Powdered) for Shampooing.
Don't forget, we back you with
Forceful Publicity
Attractive Showcards
Handsome Profits

Obtainable from all Wholesalers.

TRADE TERMS.
12/- doz. ... retailed at 18/-
20/- ,, ... ,, ,, 30/-

Write to-day for particulars of Special Display Terms.

Masters the Hair

Anzora Perfumery Co., Ltd., Willesden Lane, London, N.W.6, England

STRODONIA Vanishing Cream.

NOW SUPPLIED IN
ALUMINIUM SCREW-CAPPED JARS.
10½d. size—7/6 doz. 1/3 size—10/6 doz.
FROM LONDON WHOLESALERS.

Direct orders value £5, subject to 1 doz. 1/3 size Bonus for window display and 5% discount cash, one month; £2/10/0 subject to ½-doz. 1/3 size Bonus for window display, net.; £1/10/0 subject to ½-doz. 1/3 size Bonus for window display, net. Carriage paid on £1/10/0 upwards.

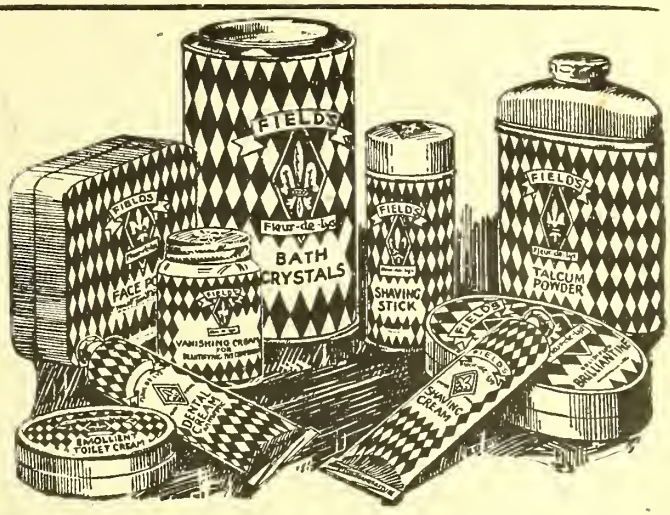
STRODE COSH & PENFOLD, Broadmead, BRISTOL.

A. GIDLOW & CO.
(ESTABLISHED 1896)
Broom Lane, Levenshulme, MANCHESTER.
MANUFACTURERS OF
SHAVING CREAMS
Packed in 1-lb., 2-lb., 7-lb. Boxes and 56-lb. Cases.
Also packed in Collapsible Tubes.
PROPRIETORS & MANUFACTURERS OF
RENARD'S POMADE HONGROISE
Also supplied in unlabelled Tubes and Bulk.
SAMPLES AND PRICES ON APPLICATION.
WHOLESALE ONLY.

IN their presentation to the public, Field's Fleur-de-Lys Toilet Preparations strike an entirely new note. They are daintily packed in containers covered with a very arresting yet dignified design of old gold and black diamonds, that cannot fail to attract the attention of your customers, and convey a very pleasing impression.

These lines are all a lucrative source of profit to you, and their quality, and the very attractive manner of their presentation to the public, assure that the advantageous terms offered you are regular and continual.

Their quality is backed by our high reputation—nearly 300 years old.



FLEUR-DE-LYS
Toilet Preparations

J. C. & J. Field, Ltd., Upper Marsh, Lambeth, S.E. 1.

Estd. in 1642, in the reign of Charles I.

BOURJOIS

PARIS.

POUDRE de RIZ de JAVA

No. 45.	2/- Size.
1 doz. ...	16/- doz.
6 ,, ...	15/9 ,,
12 ,, ...	15/6 ,,

No. 495.	1/3 Size.
1 doz. ...	11/- doz.
6 ,, ...	10/9 ,,
12 ,, ...	10/6 ,,

The P.A.T.A. prices for "Poudre de Riz de Java" are 2/- and 1/3 per box.

"JAVA" Powder is now being largely advertised to the public.

LOOK TO YOUR STOCKS.

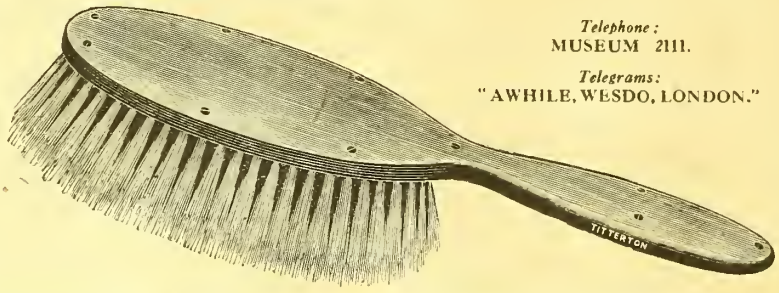
A. BOURJOIS & Cie, Ltd., 66 Carter Lane, LONDON, E.C. 4.

Also manufacturers of the celebrated "ASHES OF ROSES," 15/- per dozen.

HAIR BRUSHES

NAIL BRUSHES.
CLOTHES BRUSHES.
SHAVING BRUSHES

Everything in the way of Brushes.



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Telegrams: "AWHILE, WESDO, LONDON."

TITTERTON & HOWARD LTD., 8-10 GT. TITCHFIELD STREET, LONDON, W.1.

Wholesale and Export ONLY.

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DRESSING - RAKE - TOOTH

Write for Samples and Quotations for immediate delivery.

J. A. BROTHERS,
17/18 Chapel St., Whitecross St., London, E.C.2
Phone: CITY 5321.

PROTECTS from all weathers, preserves the COMPLEXION

MOKOL SOFTENS ROUGH HANDS FACE CREAM FOR THE SKIN **MOKOL**

Reg. INDISPENSABLE IN THE HOME Reg.

For LIBERAL Wholesale Terms write to—
THE MOKOL CO., 98 Hatton Garden, London, E.C.1

The Evan-Williams
Always in Great Demand.
Price List on Application.
The Evan-Williams Co., Ltd., 18, Ogle Street, W.1.
ORIGINAL HENNA SHAMPOO.

BIDWELLS

SPECIAL NOTICE.

We are now putting up £12 parcels of assorted HAIR BRUSHES, and £3 parcels of NAIL BRUSHES, suitable for Christmas Trade. Attractive lines and good value. Let us send you one.

AXMINSTER - - DEVON.

WHOLESALE & EXPORT ONLY

VERNON POWELL LTD.

THE House for

COMBS

OF EVERY DESCRIPTION
AND TOILET REQUISITES

9 & 10 ST. ANDREW'S HILL, E.C.4.

Northern Agents: - PENNY & CO., Big Market, Newcastle-on-Tyne.

KOH-I-NOOR

TOOTH BRUSHES

Pre-War Quality

STOCKED BY ALL WHOLESALE DRUGGISTS' SUNDRIESMEN

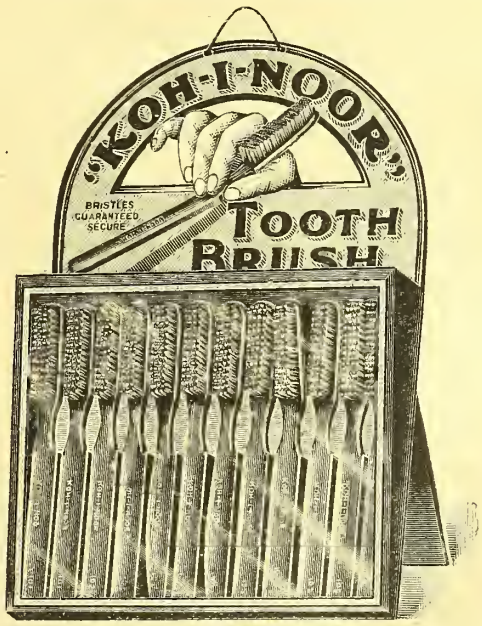
ON THE P.A.T.A.

	No. 522	523	519 (Child's)
Wholesale, per doz.	*20/-*	*23/6*	*12/-*
Retail price, each	*2/6*	*3/-*	*1/6*

YOUR PROFITS GUARANTEED

NOTE. *This attractive Counter Display Stand supplied FREE with orders for three dozen & upwards.*

The Bristles of a KOH-I-NOOR do not come out, in fact it is practically impossible to pull them out, even by force.



Only the Best Materials used, and the Finish is Perfection. See that the word "Koh-i-noor" is on every brush.

If you require a tooth-brush that you can recommend with confidence, order the

KOH-I-NOOR

WHOLESALE ONLY

We Specialise in the Manufacture of

GLASS STOPPERED BOTTLES

for

Perfumes, Chemicals, Spirits, etc.

Stoppering Guaranteed.
Prompt Delivery.

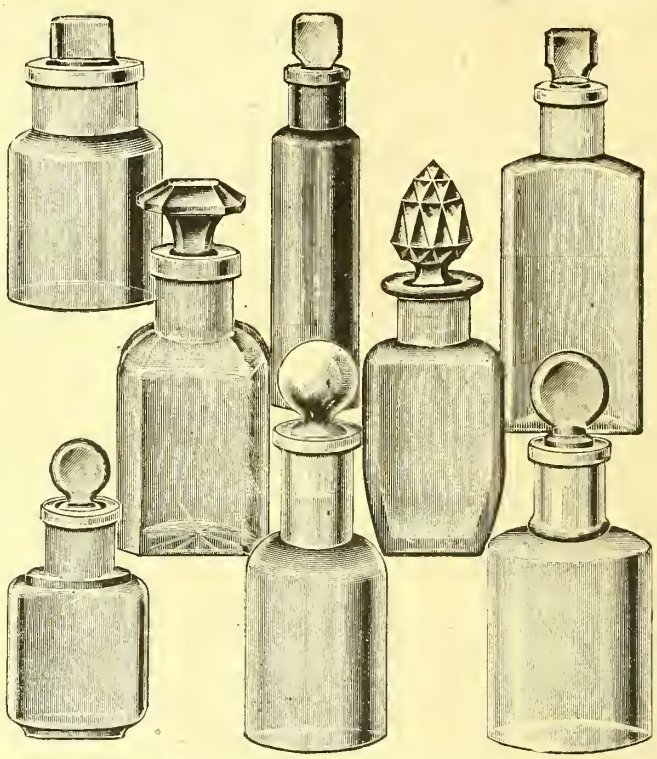
MOULDS for Special Shapes made at these Works.

Samples and Prices on Application.

John Dowell & Sons (Glass Bottle Manufacturers) Ltd.,

Leagrave Works, Chatsworth Road, Clapton Park, London, E.5.

Tel. No.: Dalston 2219.
Tel. Add.: "Acetized, Hack, London."



CORKS

The Best Value in the Trade.

ESTABLISHED 150 YEARS.

Importers & Manufacturers of all classes of Corks

USED BY

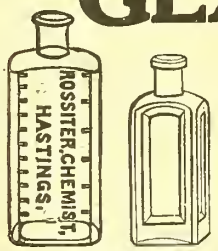
WHOLESALE CHEMISTS, DRUGGISTS, &c.

Samples & Prices Free on Application. Special Terms for Contracts & Export Orders.

JOHN DEIGHTON & CO. *Contractors to H.M. Government, War Office, etc.* **YORK, ENGLAND**

GLASS BOTTLES

WHOLESALE and EXPORT



Medical Flats { Best Quality, Quinine Tinted. Pale Tinted, 2nd Quality.
Panels ,, Pale Green.
Vials, White Flint. All sizes.
Poisons. Actinic Green, Blue or Amber.

SAMPLES AND PRICES UPON APPLICATION TO—

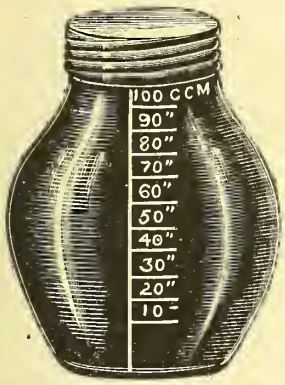
FARROW & CO., 87 Borough High Street, LONDON, S.E.1.

Telephone—HOP 3222.

DRUGGISTS' GLASSWARE

HENRY W. BUSH & CO., LTD.

Rembrandt Works, 32/34 Commercial Street - LONDON, E. 1.



SPITTING MUGS, BLUE GLASS.

ALL
GLASS GOODS

FOR
EXPORT & HOME TRADE.

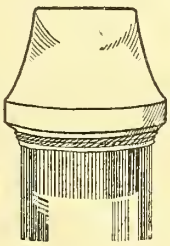
Specialities
FOR
The East, Africa & Australia.

STOPPERED
SHOP ROUNDS
(Plain and Labelled).
GRADUATED MEASURES,
SPITTING MUGS,
SYRINGES, ALL KINDS,
EYE CUPS,
FEEDING BOTTLES,
HYDRO & SEDIMENT JARS
LOTION JARS,
FUNNELS, URINALS, JUGS
and
ALL SUNDRIES.

ESTABLISHED 1887.

Immediate Delivery

GATES' BOTTLE CAPPING SKINS



SNOW-WHITE OPAQUE
ROLLED SKINS

These Skins are damp and READY FOR USE. They are used by all the leading Perfumery and Drug Houses. ABSOLUTELY AS OPAQUE AS SPLIT SKINS and equal in appearance. Also

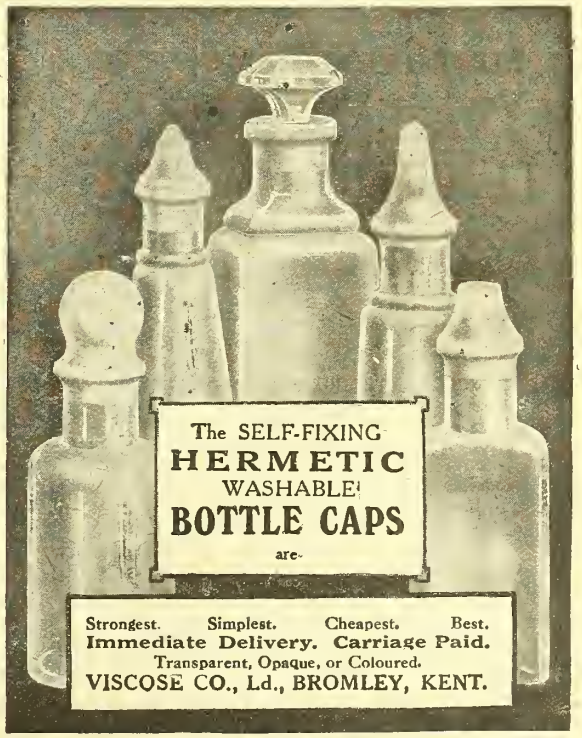
WHITE, OPAQUE & TRANSPARENT BAUDRUCHE

Gold-Beaters' Skin

"Sole Pioneer" and only English Manufacturer

LESLIE GATES
HAILSHAM, SUSSEX
Telephones, 53 and 3.

Another New Speciality.—Try my TRANSPARENT SHEEP BAUDRUCHE CAPPING SKINS.



NOTE.—No smells, fumes or benzine-fire risks with this Capping.

Telephone No
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Telegrams
"SILVERLOCK, LONDON"

SUTTLEY & SILVERLOCK LTD.

THE WORLD'S LABEL PRINTERS

LABELS FOR EVERY PURPOSE.

DRUGGISTS' LISTS OF EVERY DESCRIPTION.

QUALITY & ORIGINALITY

BLACKFRIARS RD LONDON, S.E.

Effective, Showy, and Very Saleable

Losall's - - Ball-Room Floor Polish

For quickly producing a perfect Polish on Floors for Dancing.

Handsome three-coloured Enamelled Tin, Perforated Top.

P.A.T.A. 1/6 Per Dozen, 13/6

LOFTHOUSE & SALTMER, Ltd.

Wholesale and Export Drug Merchants and Manufacturing Chemists,

HULL.

MAKES DANCING A PLEASURE.

THE "ELDON"

BALL - ROOM FLOOR POLISH

In 1-lb. packets or 1-cwt. sacks.

HALL FORSTER & CO., Ltd.
NEWCASTLE-ON-TYNE.

Supplied on Easy Payments.

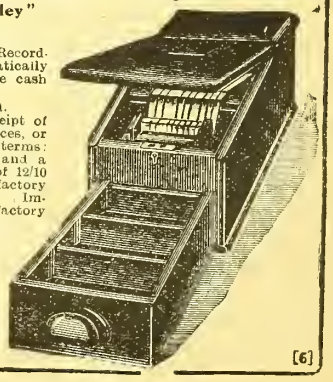
The "Improved Dudley" CASH TILL.
Size 18×9×7½ in.

Lid fitted with lock and key. Recording paper 3½ in. wide. Automatically rings warning bell every time cash drawer is opened.

85/- net cash each.

Sent on 14 days' trial on receipt of cash or two wholesale references, or can be supplied on the following terms: First payment of 12/10 down and a further 6 monthly payments of 12/10 each, on giving two satisfactory London wholesale references. Immediately on receipt of satisfactory references and first payment the Till will be forwarded by first available goods train.

"Improved Dudley" Till Coils. 5/- doz.



DUDLEY & CO.,
451 Holloway Rd., London, N. 7.
City Showrooms, 25 Wood Street, Cheapside, E.C.

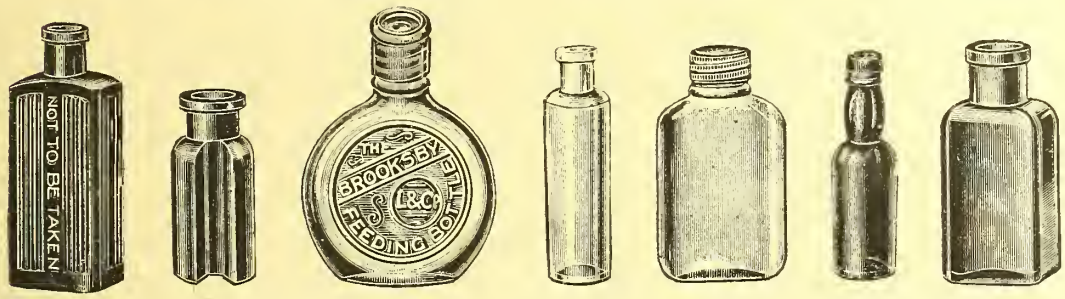
[6]

Ludford & Co.

BROOKSBY'S WALK - - - - HOMERTON, LONDON, E. 9.

GLASS BOTTLES

MADE EXCLUSIVELY BY BRITISH LABOUR.



ALL KINDS, FOR ALL PURPOSES, IN ALL COLOURS.
PLAIN OR STOPPERED.

Specialities:—SCREW TABLETS & AMBER BOTTLES.

Telephone: DALSTON 587. Telegrams: "LUDFORDIA, HACK, LONDON."

MEDICINAL

GELATINE CAPSULES

Blaud Pill
Castor Oil
Cod Liver Oil
Balsam Copaiba
Sandalwood Oil

etc. etc.

INQUIRIES INVITED.

JOHN TYE & SON,
457 Caledonian Road, LONDON, N. 7.

ENVELOPES & WRAPPING PAPERS
FOR CHEMISTS' USE

Seidlitz Blue Paper & Powder Bags
Seidlitz White Paper & Powder Bags
Pill & Tooth Brush Envelopes
Greaseproof Shampoo Inner Bags
Stocked in several sizes

We specialise in the manufacture of small envelopes for chemical packing down to 1¼ inches square.

ESTABLISHED 1865

ALFRED MACKRILL & CO.
11 St. Mark's Road, LONDON, S.E. 5.
Phone: Brixton 1995

H. MILLS & SONS,

The Premier Chemists' Shopfitters, Shop Front Builders, Designers & Manufacturers
163/5 OLD STREET, LONDON, E.C.

Beg to inform their numerous Chemist friends and those contemplating alterations and new pharmacies, they have now acquired a **New Extensive Joinery Factory** at Oxford Road, Islington, N., with all up-to-date Electric Machinery and Appliances for the manufacture of High-class Shop Fronts and Fittings at reasonable prices, and solicit your enquiries.

Their large works at **Old Street** have now been converted into **Showrooms** with a large stock of new and second-hand Fittings and Showcases, etc., at Bargain Prices.

Barley at its Purest

Fawcett's Natural Process Barley, prepared with milk, is highly recommended for the aged, invalids, expectant mothers and young children because it is specklessly clean—unbleached—untreated by chemicals—untouched by hand.

FAWCETT'S
Natural Process
BARLEY

Particulars of other Fawcett's Specialities on application to

The YORKSHIRE PEARL BARLEY MILLS, Ltd.

POCKLINGTON, YORKSHIRE.

Telegrams : "Gathergood, Terrington St. John."

ESTABLISHED 1900.

CULINARY HERBS, RUBBED MINT, PARSLEY, THYME, SAGE, etc. etc.

CULINARY HERBS OUR SPECIALITY

Wholesale and Export Only

Dr. B. W. GATHERGOOD'S Exor. & Co.
Tilney St. Lawrence, KING'S LYNN.

"TOWER"
EARTHENWARE FILTERS

Sizes from 1 Gallon to 10 Gallons.

Specially suitable for

ACIDS, ESSENCES, AND PHARMACEUTICAL PREPARATIONS.

"FARJAK" ASBESTOS FILTERING MEDIUMS

for use with the above—Pure and Neutral.

Filling, Corking, and Capsuling Machines.

FARROW & JACKSON, LTD.
ESTABLISHED 1798.
16 Great Tower St., LONDON, E.C. 3.

ESTABLISHED 135 YEARS.

R. J. FULLWOOD & BLAND'S

TRADE MARK.

WORLD-RENOWNED
Dairy Preparations
command the biggest sale in Great Britain and Ireland, and are used and recommended at the PRINCIPAL DAIRY INSTITUTES.

ANNATTO RENNET

"Oleo" and "Sunbeam" Butter Colour, Essence of Rennet, &c.

31, 33 & 35 Bevenden St., Hoxton, London, N.1
And Rennet Works, Ellesmere, Salop.

SAFETY FIRST

NO DAMAGE. *NO* PILFERAGE.
DURING TRANSIT.

When your goods are packed in

CORRUGATED CONTAINERS

Manufactured by

CONTAINERS, LIMITED

Makers of Corrugated Paper in rolls also wraps for bottles and jars.

Head Office,
50 SOUTHWARK BRIDGE ROAD
LONDON, S.E. 1.

Works: **THATCHAM, BERKS.**

SECCOTINE
IS
ADVERTISED

Seccotine is being largely advertised in the Press. Take full advantage of the demand thus created and let your customers know that you stock this useful adhesive.
For display purposes we offer advertising matter — show-stands, showcards, transparencies — free. Send for a supply.

McCAW, STEVENSON & ORR, Ltd.
(Sole Proprietors of Seccotine),
BELFAST and LONDON.

THE "EVEREADY"
POSTAL BOX
(PATENT)

COMES AS A BLESSING TO ALL WHO PACK

¶ ANYTHING WHICH RELIEVES THE LITTLE WORRIES OF BUSINESS AND SAVES THE VALUABLE TIME SO OFTEN TAKEN UP WITH THE FIDDLING LITTLE TASKS OF EVERY-DAY LIFE IS UNDOUBTEDLY A BLESSING.

¶ THE "EVEREADY" POSTAL BOX SAVES ALL THE MESS AND THE LITTLE WORRIES CONNECTED WITH SENDING PARCELS BY POST. DOCTORS, SCIENTISTS, CHEMISTS, ALL TESTIFY TO THE GREAT SAVING OF TIME EFFECTED BY USING THIS INGENIOUS BOX.

¶ PLACE YOUR ARTICLE IN THE BOX, PUT THE LID ON AND THE PACKAGE IS AT ONCE SEALED — READY FOR THE POST. NO STRING, SEALING WAX OR PASTE REQUIRED.

¶ SAMPLES, PRICES, AND FULL PARTICULARS CAN BE HAD FROM THE PATENTEES AND SOLE MANUFACTURERS.

ROBINSON & SONS, LTD.,
BOX MAKERS TO THE CHEMIST TRADE.
CHESTERFIELD & LONDON.

TRADE MARK.

No. 1

EVERY WEEK A RAT WEEK

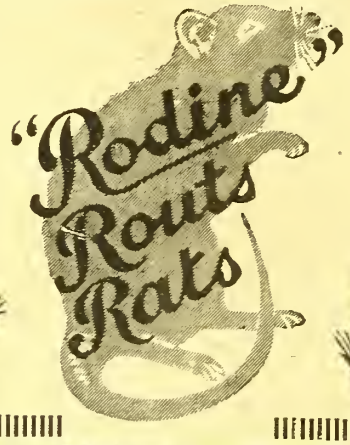
is to be the slogan for 1921 of many Rat Officers and Local Authorities all over the United Kingdom. The War on the Rat must go on, the country must be freed from the burden, amounting annually to Millions of Pounds sterling, caused through the destruction by rats of foodstuffs. The Rats and Mice Destruction Act is to be more strictly enforced. "RODINE" will be in greater demand. After exhaustive tests by Authorities it has maintained its high reputation as the Rapid Rat Remover. "RODINE" is the best seller and yields nearly 100% profit to all appointed agents.

Write to the Maker and get it on best terms.

HARLEY, Manufacturing Chemist, PERTH, SCOTLAND.

A LINE TO PUSH.

Mr. F. W. DODDS, Chemist, Crumlin, writes:—"'RODINE' is the most successful poison we can find, and we have pleasure in pushing it."



HAS NO EQUAL.

Mr. H. B. WYLLIE, Chemist, Edinburgh, writes:—"Please send on more 'RODINE.' There is no rat poison has its equal as regards sales and effectiveness in the destruction of rats and mice."

DISINFECTANTS

OF ALL KINDS.

Disinfecting Fluid,
Co-efficient Disinfecting Fluids,
Carbolic Acid (LIQUID and CRYSTALS),
Cresylic Acid,
Naphthaline,
Lysol, and
Disinfecting Powders.

The "KILLGERM" Co. Ltd.
CLECKHEATON.

Telegrams: "Disinfect Cleckheaton."
Telephone: 237 Cleckheaton
Codes: ABC and Bentley's

Established 1843.

J. PILLISCHER,

88 NEW BOND STREET,
LONDON, W. 1.

Manufacturer of

Scientific Instruments

and Sole Manufacturer of the

CELEBRATED "INALTERABLE"
CLINICAL THERMOMETER

Recent Exhibitions:
12 GOLD MEDALS
14 GRANDS PRIX
HORS CONCOURS

Sole & Exclusive Agent for Argentina, Uruguay & Paraguay—

Eugenio M. Etchegoin, Calle Maipú, 731,
BUENOS AIRES.

By Royal Warrant of Appointment to H.M. The King

By Royal Warrant of Appointment to H.M. The King.

Only ONE Address

DAY & SONS, CREWE. LTD (CREWE)

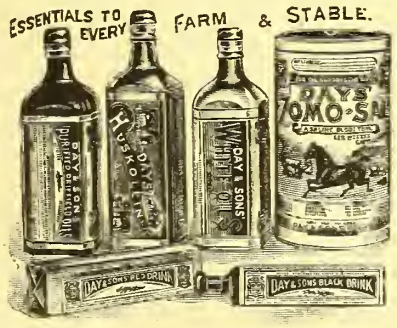
ESTABLISHED 1840.

HORSE, CATTLE, SHEEP & DOG MEDICINES.

Only ONE Address

LARGEST SALE IN THE WORLD.

ESSENTIALS TO EVERY FARM & STABLE.



DAY'S BLACK DRINK

Cures Colic or Gripes in Horses or Cattle, Scour and Weakness in all Young Stock, Blown Cattle and Sheep, Debility, Chills and Low Conditiou in all Stock.

2/3 per Bottle.
24/- per doz. 13/- ½ doz.

DAY'S HUSKOLEIN

Almost infallible for Tape Worms in Lambs and other Animals; for Husk or Hoose in Calves, Lambs, &c. A speciality for Worms in Horses and Colts.

9/- per bottle.

DAY'S ZOMO-SAL.

For Blood Disorders, Humours, General Weakness, Surfeits, Indigestion, Sterility, &c., in Horses and Beasts. Promotes Growth of Bone. Makes animals "fit" for Show or Sale.

In Canisters at 10/6, 28/-, and 60/-

DAY'S RED DRINK

OR COW DRENCH.

For Costiveness, Loss of Cud, Indigestion, Garget, Colds, Fever, Hidebound, &c., in Cattle. Prepares Cows for Calving. Prevents Milk Fever, and cures Bad Cleansing.

16/- per doz. packets.
The Ewe Drench for Ewes, 4/6 per doz.

DAY'S OILS

(THE PURIFIED DRIFFIELD OILS)

Heal all Wounds in Horses, Cattle and Sheep, Sore Teats, and swollen Udders in Cows and Ewes. For Anointing in difficult Lambing and Calving.

3/6 and 8/6 per bottle.

DAY'S WHITE OILS

A Safe Embrocation for Sprains, Swellings, Windgalls, Sprung Sinews, Rheumatism, Sore Throat, Weak Joints, &c.

3/6 and 8/6 per bottle.

DAY & SONS' "ORIGINAL" MEDICINE CHESTS

Price £3 10s. and £7 10s. Carriage Paid.

Arranged for Horses, Cattle and Sheep: Horses only; or to suit any Class of Stock.

WHEN ORDERING PLEASE STATE REQUIREMENTS.

The Chest illustrated is similar to that at £3 10s. and £7 10s.

GREAT SPECIALITIES.

ONLY GENUINE FROM

DAY & SONS, CREWE, LTD., CREWE, England

LIBERAL TERMS FOR FOREIGN BUYERS.

PURE
DOUBLE-DISTILLED
GLYCERIN
was first distilled in this Country
by PRICE'S in 1855

PRICE'S GLYCERIN
In convenient sizes and bulk

QUOTATIONS FROM-
PRICE'S PATENT CANDLE COMPANY LIMITED
BATTERSEA LONDON S W 11

FOREMOST SINCE 1855

"As the day lengthens, the cold strengthens."

THIS old Proverb is a direct warning to YOU—to be prepared NOW for increased trade in emollients.

VIOLIV ICE

has three claims you can't ignore.

1. The undoubted merit it possesses in providing a sure shield for the hands in wintry weather. It will please and *satisfy* your customers—and they will be certain to *repeat* their orders.

2. Its packing *alone* will attract custom. In addition, every order is accompanied by arrestive display matter, for window and counter. It is easy to handle, and easy to sell.

3. The profit is exceedingly generous on such a ready seller, being nearly 150 per cent. Isn't it an attractive proposition—branded, guaranteed, and heavy with profit. Worth a trial, eh?

Even although you have other emollients in stock—as a business man it is in your interest to have a trial gross. Give it a chance—it will keep your till busy.

Send your trial order now. One gross costs **24/-**, less 7½% discount cash with order, making your nett cost **£1 : 2 : 3.** It sells at 4½d. per tablet, bringing in **£2 : 14 : 0.** Your gain is **£1 : 11 : 9**, showing a profit of nearly 150%.

Sole Agents—Home and Export—

PATTINSON & MACKIE, Ltd.
ALBION HOUSE, 59 New Oxford Street, LONDON, W.C. 1.

THE VIOLIV MANUFACTURING CO. LTD. - - EDINBURGH.

Violiv

1920-1921

The past is dead but our gratitude lives.
Our resolve for 1921 is to make our service merit still more of your goodwill.

V 39] [Nor Ad.

MOORLAND PHARMACY SERVICE

W.B. Cartwright, Ltd.

RAWDON NEAR LEEDS.

The Leading House of Ideas for Pharmacy.

Offer an unique service to both manufacturers and retailers who require advice and assistance upon matters relative to advertising and selling.

We invite correspondence with manufacturers of really High-class Preparations, Toilet Specialities, Perfumery or Sundries, provided they are lines that will not clash with our present interests.

We are in an unique position to give you the best provided your lines are such as we can have confidence in.

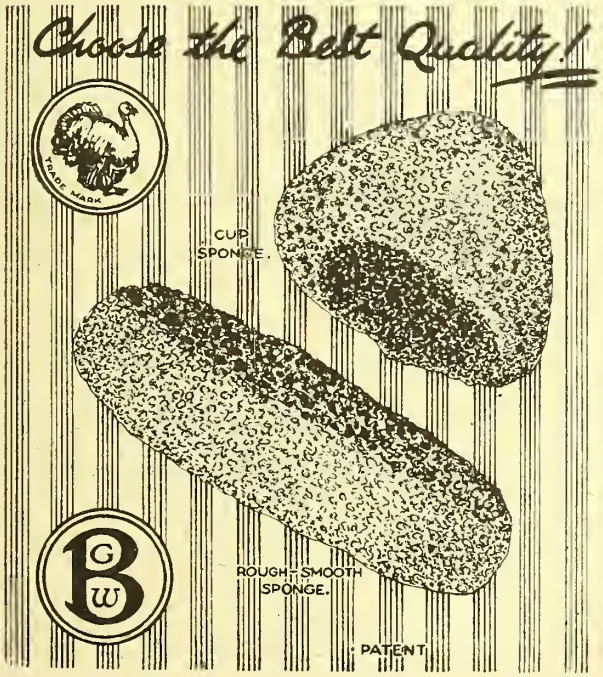
Advertising must be well done to be effective—there is nothing upon which you can waste more money than ineffective publicity. If you have ***the*** line we can create ***the*** market for you.

ADDRESS
PUBLICITY DEPT.

MOORLAND BRAND

MOORLAND
PHARMACY SERVICE

Choose the Best Quality!



BELDAM

PURE RUBBER "TURKEY"

SPONGES

Made from the best red rubber, of a fine soft texture, which resists wear much better than the coarser varieties. The ordinary sponge is made in five sizes; the patent Rough-Smooth in three sizes; and the Turkey Cup in one size only.

Unaffected by boiling water, or strong disinfectants, they are the perfect sponge.

Write for full price list.

Sole Selling Agents

MOORLAND PHARMACY SERVICE

W·B·CARTWRIGHT LTD.

RAWDON Nr LEEDS

SOME TRULY REMARKABLE TESTIMONY FROM CHEMISTS

Who write us to tell of how "restless" they find their stocks of

REUDEL BATH SALTRATES AND ALKIA SALTRATES

The best of all preparations for the bath.
Sells at 2/- and 3/3 (P.A.T.A.).

The Acme of perfection in Salines.
Sells at 3/3 a large bottle (P.A.T.A.).

These products simply will not stay on the shelf.

NOTE.—The following statements were sent us without solicitation of any kind.

Mr. Chas. Robertson of St. Andrews, wrote us saying that our products were proving so restless that he had difficulty in keeping them on his shelf. He had just made three sales within 15 minutes. Mr. J. L. Lewis of Harlesden, and many other Chemists have also written us telling of similar experiences.

In a recent advertisement we reproduced Mr. Robertson's letter in facsimile, and Mr. A. W. Cornish of Bristol, after reading that announcement, now writes us to say he has eclipsed even Mr. Robertson's record, having himself made four sales in five minutes.

By special permission, we reproduce below, in full, the letter which Mr. Cornish has kindly sent us.

A. W. CORNISH, M.P.S.
THE PEOPLE'S CHEMIST
The Oxford Pharmacy 188 Lower Ashley Rd.
BRISTOL

Messrs Saltrates Ltd.,
212/214, Gt Portland St,
London. W.1.

April 24th. 1920.

Dear Sirs;- I was reading through reproduction of Mr Robertson's (St Andrews) letter on page twelve of to-day's date Chemist & Druggist and I think this afternoon I surpassed his feat, in my shop as above. Four customers following, purchasing Saltrates preparations, as follows.

2/- Reudel Bath Saltrates) All in
3/3 Alkia Saltrates) five
2/- Reudel Bath Saltrates) minutes
3/3 " " ") or so.

Later on in the day I was asked for another 2/- size Reudel, but in this case the customer would not take the 3/3 size, so I missed the sale, having just sold the last small package. I am quite prepared to admit that this is a coincidence that does not often occur, and probably was in part due to other brother Pharmacists being "Sold out". But your preparations are always good sellers with me.

I thought the foregoing would interest you, and it is absolutely authentic, as my Lady Assistant can witness. If the "Tale wants adorning" and I may "point a moral", I would say never load up your shelves with goods that stick there, but to borrow Mr Robertson's "natty" phrase fill up with "restless" goods, which are restless to the point of removal for "Cash Till Food".

With compliments,
Yours faithfully,
A W Cornish

A Striking & Attractive Window Display of

"'HAZELINE'

(Trade Mark)

SNOW"

is the quickest and surest step towards good trade

Ladies of discrimination know the value of "'HAZELINE' SNOW" as a skin beautifier. Let them see that you sell it.

Quick turnover, sound profits and well-pleased customers—these are yours if you feature the original, and best, non-greasy toilet preparation.

BURROUGHS WELLCOME & CO.
LONDON
NEW YORK MONTREAL SYDNEY CAPE TOWN
MILAN SHANGHAI BUENOS AIRES BOMBAY

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THE BRITISH DRUG HOUSES LTD.

HEROGEN

REVISED PRICES

WE have pleasure in announcing that, owing to the decrease in the cost of production, we are able to REDUCE the prices of

HEROGEN—THE COMPLETE TONIC FOOD

The prices, as from January 1, 1921, will be:

SIZE	FACE VALUE and MIN. RETAIL PRICE P.A.T.A.	WHOLESALE PRICE Per Dozen.
SMALL	1/6	12/6
MEDIUM	2/6	20/-
LARGE	3/9	32/-

These figures show a good profit to the Retailer, and we hope to have the co-operation of our friends in extending the sales of the product.

Showcards, Booklets, &c., are available upon application.

22-30, Graham Street, City Road, LONDON, N.1.

THE CHEMIST AND DRUGGIST

A Weekly Journal of Pharmacy and of the Chemical and Drug Trades

THE CHEMIST AND DRUGGIST is in circulation and reputation the leading journal addressing the Chemical and Drug trades in the British Empire and other countries in the Old and New Worlds. It is the official organ of the Pharmaceutical Society of Ireland, the Chemists and Druggists' Society of Ireland, and of other Chemists' Societies in the Overseas Dominions.

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Index Notice.

THE index for Volume XCIII., covering the second half of 1920, is in preparation. We shall be glad if those of our subscribers who desire copies will send us post-card requests, as the index will not be issued with the journal.

Wills.

MR. LEONARD PHILIP WILSON, Middleborough House, Radford Road, Coventry, research chemist, who died on October 16, left estate of the gross value of 7,390*l*. 9*s*. 8*d*., with net personalty 6,583*l*. 1*s*. 3*d*.

MR. ROBERT TAYLOR FORBES, chemist and druggist, 158 Buxton Road, Stockport, who died on September 24, left estate of the gross value of 9,161*l*. 5*s*. 2*d*., with net personalty 6,946*l*. 2*s*. The testator left his estate upon trust for his children.

MR. JOHN EDWIN LEVIS, Ph.C., Main Street, Skibbereen, Cork, who died on April 22, has left personal property in England and Ireland of the value of 5,256*l*. 15*s*. The will is proved by Bruce Ryan Levis, Skibbereen, to whom everything is left.

English and Welsh News.

The Editor would be obliged if subscribers would send him marked copies of newspapers containing items of interest for insertion in this or other news sections of the "C. & D."

New Goods Rates.

The Rates Advisory Committee of the Ministry of Transport has just presented what is understood to be the first of a series of three reports on the question of the permanent revision of the railway rates of the country. The main principles governing the fixing of rates for the carriage of merchandise are: The charges must not be less than the cost to the railway companies of the required services, and they must in no case be more than the value of the services to the traders. The Committee considers that the present general scheme of railway rates give satisfaction and should be continued. The principle of fixing maximum scales and allowing railway companies to fix actual rates within those scales should be abandoned, and the actual standard rates and tolls fixed by an independent tribunal. The Committee also recommends a permanent tribunal, and suggests one which it considered would be suitable. Classification, it is also suggested, should be increased, and account taken of the quantity of goods constituting a consignment. The report is said to be unanimous.

Chemical Works Regulations.

Draft regulations to supersede those issued in 1908 and 1913, applicable to certain chemical industries, are published by the Home Office. These are made in accordance with the Factory and Workshop Act, 1901, and are to apply to chemical works defined in the schedule, viz.:

1. The manufacture or recovery of any of the following is carried on:

(*a*) Carbonates, chromates, chlorates, oxides or hydroxides of potassium, sodium, ammonium, iron, aluminium, cobalt, nickel, arsenic, antimony, zinc, or magnesium.

(*b*) Ammonia and salts of ammonium.

(*c*) Sulphurous, sulphuric, nitric, hydrochloric, hydrofluoric, hydriodic, hydrosulphuric, boric, phosphoric, arsenious, arsenic, lactic, acetic, oxalic, tartaric, or citric acids and their metallic or organic salts, and

(*d*) Cyanogen compounds.

2. A wet process is carried on

(*a*) For the extraction of metal from ore or from any by-product or residual material; or

(*b*) In which electrical energy is used in any process of chemical manufacture.

3. Alkali waste or the drainage therefrom is subjected to any chemical process for the recovery of sulphur, or for the utilisation of any constituent of such waste or drainage;

4. Carbon bisulphide is made or hydrogen sulphide is evolved by the decomposition of metallic sulphides, or hydrogen sulphide is used in the production of such sulphides;

5. Bleaching powder is manufactured or chlorine gas is made or is used in any process of chemical manufacture;

6. (*a*) Gas tar or coal tar or any compound product or residue of such tars is distilled or is used in any process of chemical manufacture;

(*b*) Synthetic colouring matters or their intermediates are made;

7. Crude shale oil is refined, or any compound, product, or residue of crude shale oil is used in any process of chemical manufacture;

8. Nitric acid is used in the manufacture of nitro compounds; or

9. Explosives are made with the use of nitro compounds.

The first-aid cupboard in these works is to be provided with:

(i) A supply of suitable sterilised dressings for fingers, hands, feet, or other injured parts.
(ii) A supply of sterilised cotton-wool.
(iii) A supply of sterilised burn dressings (large and small).
(iv) Plaster—waterproofed on the outside.
(v) Ointment, a 2 per cent. alcoholic solution of iodine and a bottle of sal-volatile.
(vi) A copy of the First Aid leaflet issued by the Factory Department of the Home Office.

Copies of the draft regulations can be obtained on application to the Chief Inspector of Factories, Home

Office, Whitehall, London, S.W. 1. Objections to any of the regulations must be made within thirty days of December 24 to the Factory Department of the Home Office.

Contracts.

The following Government contracts, among others, have been notified:

ADMIRALTY.—*Soap.*—Ogston & Tennant, Ltd.; Price's Patent Candle Co., Ltd.

WAR OFFICE.—*Chloride of Lime.*—The United Alkali Co., Ltd. *Crucibles.*—The Morgan Crucible Co., Ltd. *Soda Crystals.*—Brunner, Mond & Co., Ltd.

AIR MINISTRY.—*Stannic Chloride.*—W. Gregory.

STATIONERY OFFICE.—*Photographic Papers.*—A. G. Thornton, Ltd.; Wellington & Ward; A. West & Partners. *Sealing Wax.*—G. Stewart & Co.

HIGH COMMISSIONER FOR INDIA.—*Nitrate of Soda.*—A. Cross & Sons, Ltd. *Novarsenobillon.*—May & Baker, Ltd.

CROWN AGENTS FOR THE COLONIES.—*Boric Acid.*—T. Morson & Son, Ltd. *Castor Oil.*—The Premier Oil Extracting Mills, Ltd. *Drugs.*—The British Drug Houses, Ltd.; Burgoyne, Burbidges & Co., Ltd.; C. R. Harker, Stagg & Morgan, Ltd.; Howards & Sons, Ltd.; May & Baker, Ltd. *Epsom Salts.*—W. Blythe & Co., Ltd. *Lint and Gauze.*—Robinson & Sons, Ltd. *Novarsenobenzol.*—May & Baker, Ltd. *Quinine Tablets.*—Howards & Sons, Ltd. *Sanitas.*—The "Sanitas" Co., Ltd. *Serum Bottles.*—The United Glass Bottle Manufacturers, Ltd. *Spirit of Ether.*—Burgoyne, Burbidges & Co., Ltd. *Spirit of Wine.*—J. Burrough, Ltd. *Surgical Dressings.*—Vernon & Co., Ltd. *Turpentine.*—Price's Patent Candle Co., Ltd.

Public Institution News.

Maidstone Guardians have accepted the tender of Oliver & Crick, chemists, for drugs.

Romsey Guardians have accepted the tender of Mr. F. Oram, Ph.C., for drugs and surgical dressings.

Leeds Guardians recently recommended the appointment of a staff of visiting specialists, including a radiologist and an eye specialist.

Nelson Education Committee has authorised the expenditure of 725*l.* on alterations at the school clinic, including the installation of an *x*-ray equipment.

Cocaine Prescription Case.

At Reading, on December 22, Mr. Percival Lyndon Worton, chemist and druggist, 10 Bridge Street, Caversham, was summoned for supplying cocaine to an unauthorised person without retaining the prescription on the premises and without entering in a book specially set apart for the sole purpose the ingredients of such prescription and the name and address of the person to whom it was sold or delivered, in contravention of Regulation 40B of the Defence of the Realm Act, 1914. Mr. E. T. Hatt, who appeared for the defendant, admitted the offence. An inspector said that he called at the defendant's shop and asked to see his records regarding the sale and supply of cocaine. The defendant willingly produced his prescription-book, and witness found a prescription containing cocaine from Dr. Leslie Powell. Record of that sale or supply of cocaine could not be found. By Mr. Hatt: He did not suggest there was any improper use of cocaine on the premises, but it was merely a failure to keep the regulations. He did not doubt that Dr. Powell gave the patient the prescription. The chairman of the Bench, after pointing out that Mr. Worton was liable to a very heavy penalty, imposed a fine of 5*l.*, with 2*l.* 2*s.* costs.

Birmingham.

The new telephone rates are coming in for severe criticism locally.

Mr. S. H. Smith, chemist and druggist, has opened a business at the corner of Regent Street, Bournville Lane.

A Moseley pharmacist has been exhibiting to his Christmas visitors some specimens of *Primula vulgaris*, blooming in his garden.

Mr. F. B. Winfield, son of Mr. G. F. Winfield, chemist and druggist, Solihull, has recently passed the third examination for the degrees of M.B., Ch.B., at Cambridge University.

Mr. C. W. Frith, a Birmingham publican, has died near Glossop from an overdose of chlorodyne, inadvertently taken.—A child aged two has been fatally poisoned in this city by a corrosive fluid, the name of which was not given at the inquest.

A plate-glass window in Broad Street was smashed recently. Within seventy minutes two representatives of window-fitting firms and three plate-glass insurance agents had called upon the proprietor. The damage was fully repaired within four hours.

The city was full of visitors prior to and during the holidays, but the volume of cash taken was less than in former years. Only a few retailers opened on Tuesday. Wholesalers reopened on Wednesday morning. Works generally are closed for ten days.

The value of an attractive window-display was recently impressed on the mind of a Bull Street shopkeeper when he compared his takings in normal circumstances with those on a day when the window was "steamy." The difference amounted to several pounds.

An unemployment insurance fund has been instituted by Cadbury Bros., Ltd., at their works at Bournville. The fund is non-contributory, and the income is based on the tonnage of goods sold. The scheme is to run for five years and to be subject to the consideration of the works councils from time to time. An initial sum of 5,000*l.* has been placed to the credit of the fund.

Leicester.

The Leicester and Leicestershire Pharmaceutical Association have secured representation on the council of the Leicester, Leicestershire, and Rutland College. The council of the L. and L.P.A. have chosen Mr. A. E. Young, Ph.C., to act as their representative.

The keen interest of the Leicester pharmacists in window-displays has resulted in the formation of a local branch of the British Association of Display Men. The gathering at the inaugural meeting consisted of nine chemists and five other traders. Mr. G. E. Marfitt was elected president, and is also to be the chemists' representative on the executive committee.

Liverpool.

Retail pharmacists, as a rule, have had a shorter Christmas holiday than any of their neighbours.

Atomisers for the distribution of perfume command increasing sales. One was sold in this city the other day to a lady for use on her Pekinese dog.

Mr. W. H. Saunders, chairman of Ayrton, Saunders & Co., Ltd., has been promoting an essay competition among the staff of his company. Four prizes have been awarded, the first being of the value of 3*l.* 3*s.*, for essays of not more than a thousand words on "Our export business, its importance, possibilities, ideals of efficiency in extending it, and suggestions." The three judges appointed may have had some difficulty in making their selection, as several of the essays evince a keen *flair* for the practical and a command of neatly turned phrases. The first, third, and fourth prizes have been secured by male members of the staff.

Sheffield.

The Co-operative Wholesale Society contemplates a considerable extension of its business in the district, the sum of 1,000,000*l.* being mentioned in this connection.

The long holiday tempted quite a number of chemists to take a rest in Derbyshire. One pharmacist is so charmed with the Peak district that he is having a bungalow erected.

"Pharmacists who subscribed to the Lord Mayor's relief fund hardly intended that 500*l.* should be used to purchase Glaxo for the infants' welfare department," writes a correspondent.

The local pharmacists' verdict on their Christmas trade is that it was "not so bad" considering the prevailing

conditions. Selfridge & Co., Ltd., devoted one of their main windows to the display of perfumes and chemists' sundries.

Miscellaneous.

FIRE.—Stocks of gelatin and glue valued at 30,000*l.* were destroyed by a fire which broke out on the premises of B. Cannon & Co., Ltd., Lincoln, on December 28.

PETROL PRICE REDUCED.—In consequence of the removal of the 6*d.* duty on petrol, which was imposed in September 1915, the price of petrol in Great Britain was reduced by 7*d.* per gallon on January 1. No. 1 quality is now 3*s.* 5½*d.* per gallon, and the cheaper grade 3*s.* 3½*d.*, with the usual additional 1*d.* for Scotland.

COCAINE VENDOR SENTENCED.—At Marlborough Street Police Court, London, on December 28, Alfred Thompson (18), costermonger, was sentenced to four months' hard labour for being in unlawful possession of cocaine. When arrested, near Piccadilly Circus, the prisoner had upon him a matchbox containing six packets of a white powder, the exact composition of which was not stated.

LECTURES ON GLASSWARE.—The British Lampblown Scientific Glassware Manufacturers' Association, Ltd., announces a series of lectures on the manufacture and uses of scientific glassware, to be held from January 5 to March 23 inclusive at the Northampton Polytechnic Institute, London, E.C.1. The lecturers are Professor Turner and Mr. English, M.Sc. (Sheffield University), Mr. Higgins, M.Sc., and Mr. Stott, B.A. (National Physical Laboratory), and Mr. Davis (Gallenkamp & Co., Ltd.). The range of the subjects to be dealt with is an extensive one.

Irish News.

Brevities.

Mr. W. P. Sheil, Ph.C., has opened a new medical hall in Bridge Street, Tullamore.

At the recent Second Professional examination of the Royal College of Surgeons, Ireland, Mr. T. A. Austin, son of Mr. Richard A. Austin, Ph.C., Bray, has been awarded First Prize and Silver Medal for Histology, First Prize and Silver Medal for Surface and Topographical Anatomy, and the Stoney Memorial Gold Medal for General Anatomy.

Creditors' Meeting.

The statement of affairs of Mr. James Taylor, Ph.C., Enniscorthy, made at a meeting of creditors in Dublin on December 20, shows liabilities amounting to 1,175*l.*, against assets estimated to realise 735*l.* The assets mainly consist of stock-in-trade, fittings, furniture, and book debts. An offer was made of 4*s.* in the pound, in three instalments. Among the creditors are: Ayrton, Saunders & Co. (Liverpool), 102*l.*; Boileau & Boyd (Dublin), 30*l.*; The British Drug Houses, Ltd., 17*l.*; Cooper & Nephews (Berkhamsted), 23*l.*; Cork Chemical and Drug Co. (Cork), 65*l.*; Evans Sons Lescher & Webb, Ltd., 140*l.*; Jeyes' Sanitary Co., Ltd., 25*l.*; S. Maw, Son & Sons, Ltd., 33*l.*; McDougall Bros. (Manchester), 14*l.*; Southall Bros. & Barclay, Ltd. (Birmingham), 115*l.*; Storey, Fred, & Co. (Belfast), 12*l.*; Wright, Layman & Umney, Ltd., 18*l.*; Waide, Thos. (Leeds), 14*l.*

FIXED PRICES FOR DRUGS IN PORTUGAL.—The "Diario do Governo" (Lisbon), of November 24, publishes a decree which fixes the retail selling price of a large number of drugs and medicines.

THE COMPLETE CYNIC.—The following is culled from a Hungarian pharmaceutical journal:

Old Practitioner (to young *confrère*): "Why do you write your prescriptions so legibly?"

Y.C.: "I do not wish to afford any occasion for errors in compounding."

O.P.: "But if you yourself make a mistake, how will you be able to affirm that the pharmacist has incorrectly read your prescription?"

Scottish News.

A Board of Health Inquiry.

Mr. J. Rutherford Hill, as a pharmaceutical member of a special Sub-Committee (of which Dr. J. F. Tocher is convener) of the Consultative Council on Medical and Allied Services, has been asked to prepare a memorandum in connection with the following remit:

(1) Whether there is adequate protection of the public against the use of impure food (other than milk and meat) or impure drugs, or of articles of food which would be injurious or dangerous to health.

(2) If not, in what direction the administration of the present Acts could be improved to secure this end.

(3) What further arrangements of a preventative character it is desirable to make for the better protection of the public.

Mr. Hill will deal more particularly with drugs, including nutrient medicaments such as cod-liver oil emulsion, malt and oil and malt extract, and invalid foods, and will be glad if pharmacists will help with experiences or suggestions in connection with these matters. The chief points are as follows:

(1) Are you satisfied with matters as they stand?

(2) Where could improvements be made?

(3) What form of procedure would you suggest for the better protection of the public, and for the due protection of the pharmacist?

(4) What standards should be fixed for drugs, and how would these be best fixed? Name any special drugs you think should be standardised.

(5) Should the percentage of oil or active ingredients, for example, be stated, and the food-value indicated in the case of invalid foods?

Brevities.

It is reported that two new businesses are to be opened at Rosyth, one of which is to be run by a co-operative society.

Mr. J. Y. McLellan, chemist and druggist, Kirkintilloch, has been appointed secretary of the local Merchants' Association.

Dundee.

There are now seventy-two full-time day students attending the pharmacy classes at the Technical College, as compared with twenty-four in the previous session.

A new clinic for venereal diseases is proposed for Dundee. It is estimated that the equipment will cost 5,000*l.*, the doctor's salary 700*l.*, and that of a part-time assistant 250*l.*

The weather was not favourable for shopping this Christmas. Perfumes have been in fair demand. "Frost" was much inquired for. Wine essences are regaining their pre-war popularity now that sugar is abundant.

Edinburgh.

The first of a series of lectures to business men and women, organised by the Edinburgh Rotary Club, was given on December 21 in the Y.M.C.A. Hall by Dr. W. Inglis Clark. The lecture was entitled "Science and Common Sense in Business."

A local pharmacist, who had been congratulating himself on having qualified before the introduction of the new syllabus, received a shock when a few hours later he read of a suggestion that all certificates granted by scientific bodies should be called in, to pave the way for a higher standard of general knowledge.

Glasgow.

The Carnegie Trustees have agreed to an endowment of 10,000*l.* towards the chair of inorganic chemistry in the Royal Technical College.

A notice has appeared in the local Press that all claims against the late Ronald Mort Barge, manufacturing chemist, 182 West Street, Glasgow, who resided at Armadale Row, Dumbartonshire, should be sent in immediately to the trustees at 77 St. Vincent Street, Glasgow.

French News.

(From the "C. & D." Paris Correspondent.)

PROFESSOR TRABUT, to whom the American Genetic Association has awarded the Frank N. Meyer medal, is attached to the botanical services of the Government of Algeria. Over twenty-five years ago he founded, at Rouiba, the first garden of experimental botany, and is a pioneer in the science of applied botany. He has introduced many plants in the colony, and has also cultivated and improved indigenous wild species.

PROFESSOR BOURQUELOT, of the Paris Faculty of Pharmacy, recently read to the Academy of Medicine a review of his twenty years' study of glucosides in plants. He has discovered (by his biochemical method in his own laboratory) fifteen new glucosides, all lævogyrate, which may be hydrolysed by emulsine. Many of these glucosides are found in plants of widely different botanical species. Glucosides have thus been discovered and isolated in fifty-six species of plants. Of 281 phanerogams examined in his laboratory 205 have been found to contain glucosides. There are, therefore, still 149 of which the glucosides have to be isolated.

CENTENARY OF THE ACADEMY OF MEDICINE.—Among those present at the centenary meeting of the Academy of Medicine were the President of the Republic, the Minister of Hygiene, the Minister of Public Instruction, etc. The foreign delegates represented Bolivia, Belgium, Colombia, Denmark, Great Britain (Messrs. Moon and Smith), Greece, Italy, Poland, Roumania, Switzerland, Spain, and Sweden. M. Honnorat, Minister of Public Instruction, made the principal speech, pointing out that the progress of hygiene is closely allied with that of national education. A medal struck in commemoration of the event was handed to the official personages previous to their departure. M. Autrand, Prefect of the Seine, joined with the President of the Paris Municipal Council in receiving and welcoming the Academy of Medicine and the foreign delegates at the Hotel de Ville. He aptly reminded his guests that Jean Baptiste Dumas, member of the Academy of Medicine, was for twelve years President of the Paris Municipal Council.

THE ACADEMY OF SCIENCES met recently to elect a member in the place of the late M. Adolphe Carnot (brother of an ex-President of the Republic). The successful candidate was M. J. L. Breton, Minister of Hygiene. He is forty-eight years of age, and began his career as preparator to Schutzenberger at the College of France. He sits as Deputy of the Cher since 1898. During the war he was Under-Secretary of Inventions. M. Laveran reported that M. Ch. Nicolle (director of the Tunis Pasteur Institute) and M. Conseil had succeeded in inoculating natives against the Maltese or Mediterranean fever. The culture used was the *Micrococcus melitensis*, and the immunity it confers had been experimentally verified. M. Maquenne explained the researches of MM. Nemec and Kas (Prague) on the maturing of cheese. Cheeses are ripened by "penicellia." The *Penicellium roquefortique* increases by one-third when in contact with sclenates. A stronger dose of selenium is toxic. Hitherto selenium has not been found as a constituent of vegetable life. A note by M. Gabal on the diffusion of light by argon was read. The study of this diffusion enabled him to count the number of molecules of argon. It would seem from his experiments that these molecules have a spherical form.

PARIS SOCIETY OF PHARMACY.—A discussion on the "alcoholature" of aconite leaves was the principal feature of the recent meeting of the Paris Society of Pharmacy. M. Richaud had found in a number of these preparations that the proportion of aconitine varied so considerably that he advised the omission of this medicament from the next edition of the Codex. M. H. Martin remarked that the omission would have little real effect, for all medicaments in the older editions of the Codex remain officinal. Doctors frequently prescribe a preparation containing a small dose of aconite, and he thought this article of the Codex could be retained. M. Meillère said that M. Duquesnel had stated some time ago that the tincture of aconite root was the only uniform preparation. M. Goris said that the "alcoholature" was sometimes just as active as the tincture, and that the proportion of aconitine in one tincture was sometimes double the strength of another. M. Bourquelot supported M. Richaud's proposition. He reminded his hearers of a fatal accident caused by confusion between the "alcoholature" and the tincture. Some progress in this direction had been made in 1908, for out of the four preparations of aconite in the 1884 Codex only two had been retained.

Centenary of the Academy of Medicine.

THE Academy of Medicine was founded by Royal decree on December 20, 1820, "to respond to the demands of the Government in everything concerning public hygiene, and more especially epidemics, etc., the examination of new remedies, secret remedies, and natural and artificial mineral waters." It was also destined to "continue the work of the Royal Society of Medicine and the Royal Academy of Surgery. There were originally three sections: Medicine (forty-five titulary members and thirty honorary), Surgery (twenty-five titulary, twenty honorary), and Pharmacy (fifteen titulary, ten honorary); besides various associates ("free," "ordinary," and "foreign") and "adjoints." Although the new body was ultimately destined to be self-elective, the first nominations were made by the King. Louis XVIII. named, for the Pharmacy Section, Vauquelin, director of the Paris School of Pharmacy; Lougier, assistant director; Professors Deyeux and Robiquet, and Assistant Professors Pelletier and Henry. Besides these school officials, he appointed the Royal Head Pharmacist, Fabre, and two Parisian pharmacists, Boullay and Planche. All these were "titularies." The "honorary" pharmaceutical members were Professor Bouillon-Lagrange and Assistant Professor Bouriat, Cheradame (treasurer of the school), and three retired pharmacists, Cadet de Vaux, Charlard, and Boudet (the "uncle"). Within the following year these elected six new titulary members: Caventou (who had just distinguished himself by his discovery of quinine), Clarion (ex-pharmacist to the Emperor Napoleon I.), Boudet (the nephew), Cadet, Laubert (head pharmacist of the Army), and Derosne. The "adjoints" included such names as Bertholet, Chaptal, Cuvier, Gay Lussac, Geoffroy de St. Hilaire, Lacépède, and Thénard. Considerable alteration has been made. The three sections have been increased to eleven, Pharmacy being now the eleventh. The distinction between honorary and titulary members was abolished and various other changes made, but the *raison d'être* of the Academy is very like what it was a hundred years ago. Much might be written as to the interesting personalities of the members of the Academy of Medicine of 1820. Clarion, for instance, was an ex-private of Bonaparte's famous "Army of Italy" before he entered Deyeux's laboratory. He was in charge of the Imperial Pharmacy at St. Cloud when Wellington and Blücher marched on Paris after Waterloo. The grim old Prussian Marshal proposed to carry off the contents of the pharmacy for his ambulances, but, thanks to Clarion's energetic attitude, he was induced to abandon his intention, and the French Government retained possession of 150,000fr. worth of medical stores. As soon as the Bourbons were restored, the old soldier of the Empire promptly offered to resign the post where he had served so well, but Louis XVIII. sent a high official to beg him to retain it. When General Bonaparte decided to study chemistry, Bouillon-Legrange was recommended by Berthelot to give the necessary demonstrations, and Napoleon and Josephine both keenly appreciated the young professor's skill. The Pharmacie Vigier, well known to all Parisians, was once Bourriat's *officine*, and the name of Charlard may still be seen on a chemist's frontage on the Boulevards. Robiquet was, like Clarion, an old soldier of the Army of Italy. He had studied physical science under Volta and anatomy with Scarpa in those, his younger, days, and so one might continue did not space forbid further gossip on this subject.

South African News.

(From "C. & D." Correspondents.)

"The Chemist and Druggist" is supplied weekly to members of all the Chemists' Societies in South Africa.

Natal.

DURBAN NEWS.—Owing to a recurrence of influenza in Durban pharmacists are kept very busy. The Chemists' Assistants' Association, which was formed two months ago with a membership of thirty, now numbers fifty-four. Employers are to meet the assistants' committee with a view to reaching an amicable arrangement regarding salaries. The suggested scale (*C. & D.*, December 18, p. 54) has been submitted to Durban employers and they decided on 27*l.* 10*s.* per month as the minimum salary for a qualified chemist's assistant.

PERSONAL.—Mr. Hessey Allanson, of Maritzburg, one of the Government nominees on the Natal Pharmacy Board, has resigned his seat. Mr. Allanson has relinquished business and sold his two pharmacies—the City Drug Store and the Railway Pharmacy—to Mr. L. R. Tibbitt, of Pretoria. For some considerable time Mr. Allanson has been in indifferent health, and intends going to England shortly to consult a specialist.—Mr. Fleming Johnston, chemist, who has been an active member of the Durban Town Council for the past five years, has been appointed Mayor. Mr. Johnston is the first pharmacist in Durban who has been elected to this important position, and we heartily congratulate him on thus receiving the esteem of his fellow-councillors.

Colonial Pharmacy Board.

A GENERAL meeting was held in the Board Room, Cape Town, on November 11. There were present: Mr. A. Walsh (chairman), Messrs. G. R. Cleghorn, J. Parry, G. Darroll, Dr. W. Darley Hartley, and the secretary. A letter was read from the Colonial Medical Council stating that, owing to the inability of Dr. Petersen to attend the meeting, Dr. W. Darley Hartley had been nominated in his place for this meeting. The correspondence with the Secretary for Public Health, culminating in the establishment of reciprocal relations with the Transvaal and Natal Pharmacy Boards, was laid on the table, together with a copy of the Government notice gazetting the consequent amendment of Regulation No. 31. A letter was read from the Secretary for Public Health, forwarding a copy of the Union Medical Dental and Pharmacy Bill, which the Government hope to introduce into Parliament again next session, and asking for any recommendations or remarks the Board desire to offer on the Bill, or on the schedule of alterations accompanying it which have been suggested from various quarters. After due consideration it was resolved to state that in connection with the Bill itself the Board desires to make no comment other than that it is noticed that a clause appears to have been added to Section 61, in line 50, commencing with the word "but" to the end of the section, which does not seem to be in accord with the wording immediately preceding it. The Bill otherwise appears substantially to retain the form in which it passed the Senate in 1917. In regard to the schedule of proposed alterations, it was resolved to reply in respect of those suggestions, with which the Board is not in accord, as follows:

On Section 1 (3): The principle has already been adopted in the Bill as passed by the Senate that there should be no medical representative on the Pharmacy Board. This Board does not think that there is any advantage in the Chief Health Officer being a permanent member of the Board, but would approve of the system of an inspector as is the custom in the case of the Pharmaceutical Society of Great Britain.—*Vide* para. 8 of Section VII. of the Society's by-laws.

On Section 1 (5): The Board does not consider that there is any need for any member of the University to be a member of the Board.

On Section 26: The Board considers that the wording suggested would be sure to yield some abuses, and sees no reason why such an addition should be made in the Bill.

On Section 69 (1): However necessary this provision may be in respect of the medical profession, it is not considered that such a necessity exists as regards pharmacists, and therefore suggests that all reference to the Board should be deleted.

On Section 71 (1) (c): Provision should be made to prevent the name of any person who has been struck off the Register for misconduct from being used under this clause.

On Third Schedule: The Board agrees that in the definition of "morphine" the percentage of morphia quoted should be 0.2 (instead of 0.5) so as to conform with the English Act of 1920.

In connection with the remaining suggestions the Board is of opinion:

(*a*) That it would be very inadvisable to insert in the Bill any chemical formulæ whatever.

(*b*) That where the percentage is given of morphine it should be stated that anhydrous morphine is intended.

(*c*) That paragraph 2 of Section 8 of the English Act of 1920 should be embodied in the Bill, as it would very much simplify the adding of any new drug to those dealt with in its provisions.

In regard to a letter from the Transvaal Pharmacy Board, conveying a copy of its comments, it was resolved to furnish that Board with a copy of the reply as above decided upon to the Secretary for Public Health. In connection with the proposed University classes for pharmaceutical students, it was resolved that the Board accept the verbal invitation of the professor of pharmacology for representatives of the Board to meet the University professors concerned in the proposal, and Messrs. Parry and Darroll were deputed on behalf of the Board in this connection. A letter was read from a chemist's apprentice at Kimberley asking whether the indentures submitted would be accepted by the Board as entitling him to enter for examination. It was resolved to reply that the indentures are not in order in so far as the Board's requirements are concerned, inasmuch as they could not be accepted as an annexure to the certificate under Regulation No. 16, subsection (*b*). The section in question contemplates only an apprenticeship to a duly licensed chemist and druggist, not to a firm generally. A letter from a chemist's assistant at Aliwal North applying for admission to examination without having the preliminary educational certificate required under Regulation 17 (*b*) was read, and it was resolved to reply to the effect that the Board is bound by the regulation quoted, and has no power to make any exception to it. A letter was read from an assistant at Durban, inquiring whether his experience in India would entitle him to accept the management of a business in the Cape Province, and the advance reply thereto, quoting section 8 of the Medical and Pharmacy Act Amendment Act, and informing him that he could not practise until he has qualified for registration, was duly confirmed. A letter was read from a chemist of Ceres, complaining that certain general dealers in Ceres are selling poisons without keeping a poisons book; and the advance reply, asking him to furnish the Board with details of a concrete case, was duly confirmed. An application for registration by Mr. A. Mennie was approved. Four applications for examination were approved. The Board adjourned for the examination of the candidates, the result of which was that Messrs. J. Mohr and E. B. van Schalkwijk succeeded in satisfying the examiners. Messrs. Parry and Darroll reported that during the adjournment they had met a committee of the University professors as arranged, and as the result of the conversations it is ascertained that the existing University classes in chemistry, physics, and botany can be thrown open to *bona-fide* pharmaceutical students provided they are first approved of by the Board. In regard to the remaining subjects of examination, viz. materia medica, pharmacy, dispensing, and prescription reading, an additional lecturer would have to be appointed, who would most likely have to take evening classes in these subjects, and this, it is thought, would probably suit apprentices better than having all the classes during the day-time. As assurance that the Board would in all probability agree to appoint the University professors of chemistry and botany as examiners for the Board in respect of these subjects was thought by the committee sufficient to meet the necessity of the University being represented on the Examining Board.

Colonial and Foreign News.

Over a hundred pharmacies have been put up for competitive examination in Old Roumania and seventy in Bessarabia.

The Czecho-Slovak Serum Institute in Mährisch-Weisskirchen has been liquidated, and the production of serums suspended.

Forbidden Bulgarian Imports.—The importation into Bulgaria of perfumes, perfumed waters, and toilet necessaries, with the exception of dentrifices, is forbidden.

Swedish Wholesale Druggists.—The large wholesale druggists in Sweden have formed an association to protect their mutual interests. At a recent meeting held in the Stockholm Chamber of Commerce great interest was manifested by pharmacists in the constitution of the association, and the adhesion was also expected of a large number of undertakings which were affected by the schemes for the monopolisation of the pharmacy system. In a communication to the Government the association has expressed the opinion that the monopolisation of the imports and manufacturing of medicines would not be of any advantage to the general community. The association suggests that it should be given the opportunity to supply pharmacists with preparations, as they have hitherto done. If this suggestion is adopted, members would not be opposed to the same form of organisation, control, and inspection as intended for the Central Laboratory.

A new system of taxation has been introduced in Belgium, whereby a number of distinct taxes have now been abolished. With regard to the pharmacist, in addition to the payment of any other taxes to which he may be liable, a new tax on the profits derived from the exercise of his profession will be levied. To ascertain the taxable amount he is entitled to deduct from gross profits, expenses incurred for the rent of his business premises, charges for upkeep (heating, lighting, cleaning), all charges for mortgages, salaries of employees, expenses for keeping the pharmacy in working condition, for the purchase of scientific works and professional journals, and insurance premiums. He will be required to pay a tax amounting to 2 per cent. of the net profit, ascertained after making the above deductions, for the first portion of 3,000 francs (nominally 120*l.*), increasing by ½ per cent. for every further amount of 3,000 francs, but not exceeding a levy of 10 per cent.

Australian Caustic Soda.—According to a report recently issued by the Electrolytic Zinc Co. of Australia, Ltd., whose works were established in 1916, near Hobart, Tasmania, for the treatment of zinc concentrates, it is intended to proceed as soon as practicable with the production of caustic soda, chlorine and chlorine products. It is stated by the company that the electrical equipment at present being used for the manufacture of zinc at their works will, without practically any alterations, enable from 6,000 to 8,000 tons of caustic soda and allied products to be turned out annually. At Edithburg, Yorke Peninsula, South Australia, the Standard Salt and Alkali Ltd., is devoting about 80,000*l.* to the erection of additional works to their ordinary plant with the object also of manufacturing caustic soda and chlorine. This concern, which has huge salt deposits at Edithburg, estimates that when its works are in full operation it will be able to sell caustic soda at 25*l.* per ton, bleaching powder at 15*l.* per ton, hydrochloric acid at 20*l.* per ton, and other allied products also at considerably less than the landed costs of overseas imports.

Patent Medicines in Sweden.—Mr. O. von Friedrichs, principal of the Swedish State Pharmaceutical Laboratory, in a communication to the Board of Medicinal Administration, fears that business in patent medicines in Sweden will flourish as it does in the United States if the proposal made by the Patent Legislation Committee in favour of granting patent rights for medicines is adopted, and he objects to the proposal. This opinion has been endorsed by the Board in a recommendation laid before the Government. The principal states that the patenting of medicines would probably revolutionise the trade in these products. At present the community is supplied with medicines prepared under responsibility and chiefly well controlled, whereas under a system of patent protection medicaments would comprise to a great extent preparations over which it would only be possible to exercise complete control in exceptional cases. The principal is also of opinion that the community should not be encouraged to choose their own medicine.

The Indian Essential Oils Industry, of which Kanauj, N.W.P., is the stronghold, has enjoyed a prosperous year. Some time ago the Government sanctioned an annual grant of Rs.5,500 for three years to carry out experiments with a view to improve the indigenous processes of manufacture, and this assistance has been of substantial help to the industry. An improved type of still has been introduced, and experiments have been carried out in the distillation of roses. The results achieved were only fairly satisfactory, and the Government chemist in charge is of opinion that a higher percentage of the essence cannot be obtained without some improvement in the flower itself. Experiments were also carried out with clove stems, and these show that with an improved type of still the stems can yield on an average an output of 4½ per cent., the oil on analysis revealing a high eugenol content. These results would seem to justify the conclusion that although clove stems are not an indigenous product, their distillation could be undertaken in India if a cheap supply of the raw material from Africa or elsewhere were available.

Calcutta Chemists' and Druggists' Association.—A largely attended meeting of chemists and druggists in Calcutta was held on November 30 at 23 Colootola Street, and Mr. H. S. Paul, senior partner of B. K. Paul & Co., occupied the chair. The object of the meeting was to establish a Chemists' and Druggists' Association in Calcutta with a view to protecting their interests. All *bona-fide* chemists and druggists are eligible for membership, and admissions will be made by ballot. The admission-fee has been fixed at Rs. 50, and a monthly subscription of Rs. 5 is payable by each member. Twenty firms became members at the meeting. The following Committee has been formed for the first year: *President*, Mr. H. S. Paul, of B. K. Paul & Co.; *Vice-President*, Mr. Asfaq, of H. S. Abdul Gunny & Co.; *Secretary and Treasurer*, Mr. H. D. Nag; *Assistant Secretaries*, Mr. N. C. Bose and Mr. Nazir. *Members of the Executive Committee*: Dr. N. M. Dey, of Dey Bros.; Mr. Dastoor; Mr. Bhattacharji, of M. Bhattacharji & Co.; Mr. Aftabuddin; Mr. S. Dey, of Daw, Dey & Co.; Mr. P. Bartlett, of Pearson's Antiseptic Co., Ltd.; and Mr. Ghaffar. Applications for membership should be addressed to the Secretary at No. 1 Bonfield's Lane, Calcutta.

Importation of Narcotics into Spain.—The Royal decree of July 31, 1918, established the principle that opium, its preparations, and coca, may not be imported into Spain in amounts of less than 3 kilograms, while the minimum weight in the case of all alkaloids of opium, of cocaine, antipyrin, and all other narcotic drugs has been fixed at 500 grams. A number of important Spanish wholesale houses have drawn the attention of the Government to the fact that in many instances the obligation to import a minimum amount of 500 grams in the case of certain alkaloids and potent drugs, which are used only in small amounts, presents serious drawbacks, and requested permission to be allowed, in special cases, to import such substances in smaller amounts than the prescribed minimum quantity. A Royal declaration has now been issued setting forth that it is impossible to alter the tenor of the original decree, particularly in view of international obligations regarding the control of narcotic drugs. However, it is not necessary that these substances be imported in a single package containing either the requisite minimum of 3 kilograms, or of 500 grams, as the case may be, but they may be imported in original packages of any size, provided that the total weight of each consignment shall aggregate the prescribed minimum weight of either 3 kilograms or of 500 grams, whichever is applicable.

Festivities.

Glasgow Pharmacy Club Whist-drive.

THE third whist-drive of the season was held on December 14, Mr. W. Wood Wilson (President) in the chair. Prizes were given by Odclon, Ltd., London, and Scott & Turner, Newcastle-on-Tyne, and they were presented to the winners by Mrs. James Crombie. The winners were: *Ladies*: (1) Mrs. Sturton, (2) Mrs. R. McAdam. *Gentlemen*: (1) Mr. W. Smith, (2) Mr. Geo. McChesney. An excellent entertainment was provided, the artists being Misses Sturton, Curtis, and Addison, and Messrs. Shepherd and Bobington. Mr. Shepherd was the accompanist.

Scarborough Assistants' Social.

ON December 21 the Scarborough chemists' managers, assistants, and apprentices were invited by Mr. and Mrs. Hirst to a social evening at the Victoria Hall, Scarborough. During the evening Mr. H. M. Hirst, who is the teacher of botany, materia medica, and pharmacy at the municipal evening classes, announced the result of the Christmas term examination, and presented Miss K. Wrightson with a copy of Whitla's "Materia Medica Notes," in recognition of her gaining top position. After discussion, it was decided to form "The Scarborough Junior Pharmacy Club," and the following officers were elected: *President*, Mr. H. M. Hirst; *Treasurer*, Mr. H. R. Allanson; *Secretary*, Mr. S. C. Morrallee; *Committee*, Messrs. J. Pirnie and Glenton, Mr. H. Owston, Mr. Dale, Miss Eyre, Miss Wrightson. Mr. Hirst suggested that social gatherings should be organised to help the Pharmaceutical Society's Benevolent Fund. A vote of thanks was accorded to Mr. and Mrs. Hirst for their hospitality.

Business Changes.

SANGERS, druggists' sundriesmen, 258 Euston Road, London, N.W. 1, are opening in the New Year a branch depôt at Newcastle-on-Tyne. The firm are the distributing agents for Glaxo in England and Wales.

WE referred last week (p. 81) to the change of address of Macandrews & Forbes, Ltd., to 65 South Molton Street, London, W. 1. The company inform us that their telegraphic address is now "Macforbes, Wesdo, London," and their telephone number: Mayfair 6996.

MR. S. REGINALD PRICE, MR. BERNARD STUTFIELD (both formerly of the Explosives Department of the Ministry of Munitions and more recently of the Explosives and Chemical Section of the Disposal Board), and MR. E. PASKELL, of E. Paskell & Co., Ltd., Hull, have entered into partnership, and will trade as Price, Stutfield & Co., chemical merchants, at 6 Fenchurch Buildings, London, E.C. 3.

Bankruptcy Report.

Re Reginald Grantham, chemist and druggist, Blossom Street, York. The first meeting of creditors was held on December 29 at the office of the Official Receiver, York. The gross liabilities amount to 3,739*l.*, of which 1,906*l.* is expected to rank for dividend, and the deficiency is 1,189*l.* Debtor states that his insolvency is mainly due to a judgment obtained at the last Yorkshire Assizes at Leeds, under which he estimates to be liable for 1,100*l.* (damages 500*l.* and estimated expenses 650*l.*), together with an illness from November 1918 to October 1919. The estate remains in the hands of the Official Receiver with a committee of consultation.

A BACTERIOLOGIST is reported as suggesting that chlorinated lime, which was so popular with the military authorities during the war, is responsible for much of the prevalent lung trouble.

New Companies and Company News.

P.C. means Private Company and R.O. Registered Office.

A. FINESTONE & SON, LTD. (P.C.).—Capital, 25,000*l.* Objects: To adopt an agreement with A. Finestone, and to carry on the business, among others, of druggists and drysalters. R.O.: 111 Witton Street, Northwich.

WILLIAM T. POLLOCK, LTD. (P.C.).—Capital, 40,000*l.* Objects: To carry on the business of grocers, druggists, mill furnishers, confectioners, etc. The first directors are: Wm. T. Pollock and R. Ross. R.O.: 34 Tomb Street, Belfast.

UNITED SERVICES PRODUCTS CO., LTD. (P.C.).—Capital, 900*l.* Objects: To carry on the business of manufacturers of and dealers in chemicals and chemical substances, drugs, pharmaceutical, chemical and surgical materials and appliances, salts, acids, alkalies, polishes, oils, paints, etc. R.O.: Stockwell House, Mount Pleasant, Swansea.

JOHN DOWELL & SONS (GLASS-BOTTLE MANUFACTURERS), LTD., (P.C.).—Capital, 20,000*l.* Objects: To take over that part of the business of John Dowell & Sons, Ltd. (incorporated in 1912), carried on at the "Globe Works," Chatsworth Road, London, which consists of manufacturing, exporting, importing, and dealing in glass and other bottles and chinaware of all kinds, etc.

ALLIED MERCHANDISE, LTD. (P.C.).—Capital, 500*l.* Objects: To carry on the business of general merchants, importers and shippers, chemists, druggists, drysalters, oil and colour men, importers and manufacturers of and dealers in pharmaceutical, medicinal, chemical, industrial, and other preparations, etc. The permanent directors are: G. C. Gagan (chairman and managing director), 109 Inville Road, S.E. 17; W. G. C. Fehres, 23 Alwyne Road, N. 1. R.O.: 52 Fenchurch Street, London, E.C. 3.

J. M. ROLLER & CO., LTD. (P.C.).—Capital, 5,000*l.* Objects: To take over the business of merchants, exporters, and importers carried on by Johann Michel Roller and Garnett Dawson at Chancery Buildings, Hull, and elsewhere, as "J. M. Roller & Co.," and to carry on the business of general merchants, agents, and dealers in coal-tar products and chemicals, manufacturing chemists and druggists, oil and colour men, dealers in oils, paints and varnishes, drugs, perfumes, toilet-requisites, etc. R.O.: Chancery Buildings, Manor Street, Hull.

BRITISH DYESTUFFS CORPORATION.—At a meeting of the board of directors, held recently, Sir William Alexander was appointed a director. Sir William Alexander is managing director of Charles Tennant, Sons & Co., Ltd., and represents the Government on the board of British Cellulose and Chemical Manufacturing Co., Ltd.

CHESEBROUGH MANUFACTURING CO., CONSOLIDATED, has been registered pursuant to Section 274 of the Companies (Consolidation) Act, 1908. The company was incorporated in New York on May 10, 1880, with a capital of $500,000 in $100 shares, to carry on the business of manufacturers of and dealers in petroleum products, etc., and to acquire the property and rights of the Chesebrough Manufacturing Companies of London, France, Spain, and New York respectively. The capital was increased to $1,500,000 in 1916 and to $2,500,000 in 1919. The last increase of $1,000,000 consisted of 7 per cent. cumulative non-voting preferred stock. In 1919 the company's powers were extended to cover the manufacture and sale of drugs, medicines, proprietary articles, druggists' sundries, toilet requisites, surgical apparatus, hospital supplies, etc., and the drilling for, and production of, oil, gas, or other volatile or mineral substances, etc. The British address is 42 Holborn Viaduct, E.C. 1, where A. B. Richardson, resident manager, is authorised to accept service of process and notices.

Chaulmoogra Oil in Leprosy.

DR. T. A. HENRY, Director of the Wellcome Chemical Research Laboratories, reviews the chemistry of Chaulmoogra oil in the "Journal of Tropical Medicine and Hygiene" (October 15, 1920), following on the announcement in "The Times" that Dr. J. T. McDonald and Professor Dean, working in Hawaii, have obtained promising results in the treatment of leprosy with ethyl esters prepared from chaulmoogra oils. Dr. Henry recalls the work of Dr. F. B. Power on the chemistry of the oil which led up to the use of the sodium salts of chaulmoogric and hydnocarpic acids by Sir Leonard Rogers. The replacement of these sodium salts of the acids peculiar to this group of oils by their ethyl esters, first prepared by Power and his co-workers in 1904-05, which appears to be a special feature of the new work in Hawaii, is distinctly advantageous since it renders possible the trial of pure preparations of even the higher acids, ethyl chaulmoograte and hydnocarpate being both limpid yellow oils, which, mechanically at least, are eminently suitable for injection. According to Dr. Balfour, a mixture of ethyl esters prepared from chaulmoogra oil was being used with some success for the treatment of leprosy in Venezuela in 1915.

McDonald and Dean's work is probably a continuation of that done by Hollmann and Dean, of which some details were published last year; from these it appears they used the ethyl esters of four fractions of chaulmoogra-oil acids. Their method of fractionation is less elaborate than that adopted by Power and his co-workers, but on the basis of the latter's results it is possible to work out with some degree of probability the approximate composition of Hollmann and Dean's fractions, and to suggest their probable relationship to the various sodium salts used by Rogers and other workers. Hollmann and Dean state that although all four fractions produced reactions on leprous lesions when injected subcutaneously, fractions C and D appeared to act most rapidly, though the number of cases treated was then too small to permit of a final expression of opinion on the point.

Hollman and Dean's fractions	*Probable composition. Ethyl esters of*	*Corresponding sodium salt*
A	Chaulmoogric acid ...	Sodium chaulmoograte.
B	Hydnocarpic and chaulmoogric acids	
C	Lower homologues of chaulmoogric series with some chaulmoogric and hydnocarpic acids and some unsaturated ordinary fat acids	Corresponds approximately to sodium gynocardate, which Rogers first used, but which he gradually improved by replacing more and more of the lower melting-point acids by hydnocarpic and chaulmoogric acids, thus approaching fraction B.
D	As C, but the unsaturated ordinary fat acids replaced by palmitic acid	

With reference to the above, the "Journal of the American Medical Association" (November 27, 1920) publishes an exhaustive article by Dr. J. T. McDonald, Director of the Leprosy Investigation Station, Hawaii, entitled "Treatment of Leprosy with the Dean Derivatives of Chaulmoogra Oil." Herein it is briefly mentioned that: "Dean originally separated the oil into four fatty-acid fractions and then, on account of their insolubility, converted them into their ethyl esters, thus obtaining thinly fluid oils readily absorbable from intramascular injection . . . after several months' trial the separation into fractions was abandoned in 1919 . . . standard treatment then for weekly intramuscular injection became, and still continues to be, the ethyl esters of the entire fatty acids of the whole oil with 2 per cent. by weight of iodine chemically combined. . . ."

The "Tägliche Rundschau," a Berlin newspaper, referring to Professor L. E. Dean's work, made the following comment:

The manner in which the majority of the English Press and that of the other Entente countries has published the report of an alleged new remedy for leprosy, based on a communication in "The Times" of July 10, again shows how unscrupulously foreigners deal with German intellectual property, and circulate statements about things as though they were of world-wide importance, when they are already known for ages, and have been correspondingly appreciated.

The article continues with the statement that this ethyl-ester of chaulmoogra oil has been on the market under the name of antileprol since 1908, and is a recognised remedy for leprosy. Its use was first suggested by Professor Engel Bey, who did very good work in the service of the Egyptian Government "until he was expelled by the British authorities after the outbreak of war." The substance itself was discovered "after extensive and painstaking investigations" by the former director of the scientific pharmaceutical laboratories of the Bayer Co., Professor Dr. Fritz Hofmann, the present director of the Emperor William Institute for the Study of Coal in Breslau, in collaboration with Dr. L. Taub, of the staff of the Bayer Co. It concludes with the statement that antileprol has been largely used with good results in the treatment of leprosy in Roumania, Spain, Canary Islands, India, Hawaii, South America, Norway, Esthonia, and elsewhere. It has been made the subject of a fairly extensive literature, and "it is difficult to assume that Professor L. E. Dean was ignorant of the existence of antileprol."

Almanacs and Calendars.

WALFORD & CO., LTD., manufacturing chemists, St. Oswald Street, Collyhurst, Manchester, send out a wall-calendar (14½ in. by 10½ in.) of the useful type, printed in red and black, with large figures.

JONES, SONS & CO., chemists, The Square, Warrenpoint, issue an illustrated almanac (7¼ in. by 4¾ in.), comprising a variety of instructive and amusing reading, with a judicious admixture of advertisement.

CHEMICALS AND BY-PRODUCTS, LTD., Rickmansworth Road, Watford, forward a wall-calendar (16¼ in. by 12¼ in.) of a useful type, the white figures standing out well from a dark-green background on the tear-off portion.

THOMAS WAIDE & SONS, LTD., chemists' printers, Kirkstall Road, Leeds, distribute a wall-calendar (9½ in. by 11½ in.), a distinguishing feature of which is the clearness of the figures—a considerable boon to the busy pharmacist.

LUDFORD & CO., glass-bottle manufacturers, Brooksby's Walk, London, E. 9, distribute a wall-calendar (14 in. by 10 in.) consisting of six leaves, each containing a clever picture by Lawson Wood humorously illustrating by implication the virtue of tact.

THOMAS MORSON & SON, LTD., 47 Gray's Inn Road, London, W.C. 1, issue a wall-calendar (17½ in. by 11 in.) with a strikingly effective design in gold and colours on a pale-grey ground. The fact that the house of Morson was established a hundred years ago is unobtrusively indicated.

JOHNSON BROTHERS, distributing agents, Dublin and Belfast, send out a wall-calendar (30 in. by 18½ in.), the centre of which has their familiar green map of Ireland as a background. Each month occupies a sheet, and the figures are bold enough to be seen across a shop or office. A spare leaf is devoted to hints on "Welfare: How to be Happy though Working."

A SUBTLE ADVERTISEMENT.—"Sacred to the memory of Nathaniel Godbold, Esq., inventor and proprietor of that excellent medicine, the vegetable balsam for the cure of consumption and asthmas," is, according to the "Birmingham Weekly Post," an inscription on a tombstone in Godalming Churchyard. It is dated 1799.

BRITISH COINAGE ADOPTED.—The States of Guernsey, at a meeting on December 14, decided to adopt the British standard of currency of British coins instead of French silver. The Lords of the Treasury have offered to exchange 63,000*l*. British silver coins for the million and a-half French francs in circulation in the island.

Pharmaceutical Salaries on the Continent.

Germany.

ONE of the first results of the German revolution was the formation of associations by various groups of the professional classes, in order to safeguard their interests during the political upheaval. In this they followed the example set by the soldiers and workmen, who formed their own councils, and it was to present a united front to the activities of the latter that the "brain workers" resolved to combine on similar lines. The pharmaceutical profession did not escape the great social change which swept through Germany, and in the place of purely private agreements between owners and assistants a system of local tariffs was instituted, whereby not only the salaries, but the hours and conditions of work in pharmacies, were established.

The "German Association of Pharmacists" (Deutscher Apotheker-Verein) and the "Association for the Protection of the Economic Interests of German Pharmacists" (Verein zur Wahrung der wirtschaftlichen Interessen deutscher Apotheker), as representing the owners, and the "Union of German Pharmacists" (Verein deutscher Apotheker), which is an association of non-owners, have co-operated in elaborating a uniform tariff, applicable to all members of the contracting parties.

The question of the remuneration to be paid to the pharmaceutical *personnel* is at present a somewhat complicated one, in view of the abnormal conditions of living in that country. Therefore, it is usual with all officials and employees to establish, in the first place, the actual salary *per se*, then the so-called "indemnity for the high cost of living," which is regarded as a purely temporary payment, and is regulated by the actual cost level of the necessities of life. In addition, owing to the great differences that exist in the cost of housing and other general expenses in different towns and villages, a further so-called "local allowance" is made, whereby the German towns and villages are classed according to their relative expensiveness, a measure which was already in force for the different garrisons prior to the war. It follows that the remuneration of a pharmaceutical assistant in Germany is now made up of three distinct payments—the actual salary, the indemnity for the high cost of living, and the local allowance. The new tariff establishes the following scale of salaries :

For assistants (without State examination diploma) ...	4,400m. per annum
For candidates qualifying for the diploma	5,400m. ,, ,,
For qualified assistants with less than five years' service after examination	6,800m. ,, ,,
For qualified assistants with more than five years' service ...	7,400m. ,, ,,

The indemnity for the high cost of living will be established every three months by the joint board, and will be expressed in a fixed percentage to be paid on the salary and local allowance together. It is interesting to note that this amount will be raised by a further 20 per cent. for those engaged in pharmacies situated in the territories occupied by the Allied forces. The local allowance, depending on the class to which the town or village belongs, ranges from 3,500m. to 1,000m. The above scale of salaries is based on an average of forty-eight hours work per week, including Sunday and night duty, the latter being fixed on the following basis—that is to say, the assistant is required to work :

In places with only one pharmacy : every second Sunday or holiday, and night duty every second night.

In places with two, four, or five pharmacies : of every four Sundays or holidays to be on duty once a whole day and once for half a day, and night duty every fourth night.

In places with three, six, and more pharmacies : of every six Sundays and holidays to be on duty once for a whole day, and twice for half a day, and night duty every sixth night.

Managers are to receive as a minimum salary the highest rate fixed by the above scale, in addition to a suitable extra remuneration ; the same applies to assistants possessing special acquirements, such as a knowledge of foreign languages, or who are engaged in analytical work, etc. The dinner-time is fixed at two hours on week-days ; if the meal is served in the house the time is reduced to one and a-half hour. On Sundays and holidays the assistants on duty cannot claim any dinner-time, but may arrange amicably among themselves, with the consent of the owner of the business, to replace each other. Annual holidays, with payment of salary, are fixed at a period of two weeks, during the first and second year of employ in the same business, and three weeks for those of longer service. The annual holiday can be claimed after a period of six months' employ in the pharmacy. In pharmacies where there is only one assistant the latter is bound to undertake the owner's work for a period not exceeding the duration of the holiday to which the assistant is himself entitled.

For any overtime which an assistant may be required to work the following scale of remuneration has been established :

Whole day on Sunday, including the same night : one-twentieth of the monthly salary ;
Half a Sunday ; one-half of the foregoing rate,
Night duty : each instance, eight marks ;
Extra hours on week-days and on Sundays are to be remunerated at the rate of one-two hundredth of the monthly salary for each hour, with an additional 15 per cent.

If the owner of a pharmacy is able to prove that he cannot pay the tariff scale of salary, the board may permit an exception in his favour. To carry this mutual agreement into effect a joint board, consisting of three members representing the owners and three nominated by the assistants' union, will be formed, which will decide all differences arising between both parties, and whose duty it will be to promote co-operation between the owners and assistants. In addition, local committees are to be formed, of three representatives of the owners and the same number delegated by the assistants. Places with at least ten pharmacies will form their own local committee. The last paragraph of the agreement provides that married assistants are to be granted an extra allowance in favour of their wives and children, as far as funds permit. This is to be effected by the creation of a special fund, into which the owner of every pharmacy will be required to pay a monthly contribution, according to the number of assistants employed by him, and fixed by the joint board. Pharmacists working with only one apprentice may be relieved of their obligation to contribute to the fund.

The introduction of this decidedly industrial form of establishing the relationship between owner and assistant marks the advent of a new era in German pharmacy. Prior to the war, except in the large towns, the assistant in the majority of cases became practically a member of the owner's family, and on the whole a cordial, almost patriarchal relationship existed. This state of affairs was largely due to the fact that the owner must also possess the house in which the pharmacy is situated, and lives on the premises, as he must be in attendance day and night. Consequently, in most of the smaller towns and in the country, the assistant was given not only his room, but also his board, usually shared with the owner's family. It is only in the larger towns, in pharmacies employing several assistants, that the latter do not live on the premises ; in these cases a special room with a bed is provided for the assistant on Sunday or night duty.

For the sake of comparison it may be mentioned that prior to the war the monthly salary of an unqualified assistant receiving full board and room would average 70m. to 100m., and a qualified assistant not receiving board and lodging, but living outside the pharmacy,

was paid anything from 175m. to 250m. a month, according to the locality and his abilities. The present scale of actual salaries to be paid (irrespective of the extra allowances) in itself represents an increase of three and a-half times the pre-war rate of remuneration! To illustrate the enormous advance in expenses generally in Germany, it is only necessary to take the case of a pharmacist who before the war paid his assistant 200m. a month in all, and is now obliged to remunerate him at the rate of 520m. actual salary, in addition to, say, 290m. (the minimum would be 116m.) "local allowance," besides the "indemnity for the high cost of living," probably another 200m. to 300m., a total outlay of at least 1,000m. a month, which would represent nominally a salary of 50m. monthly!

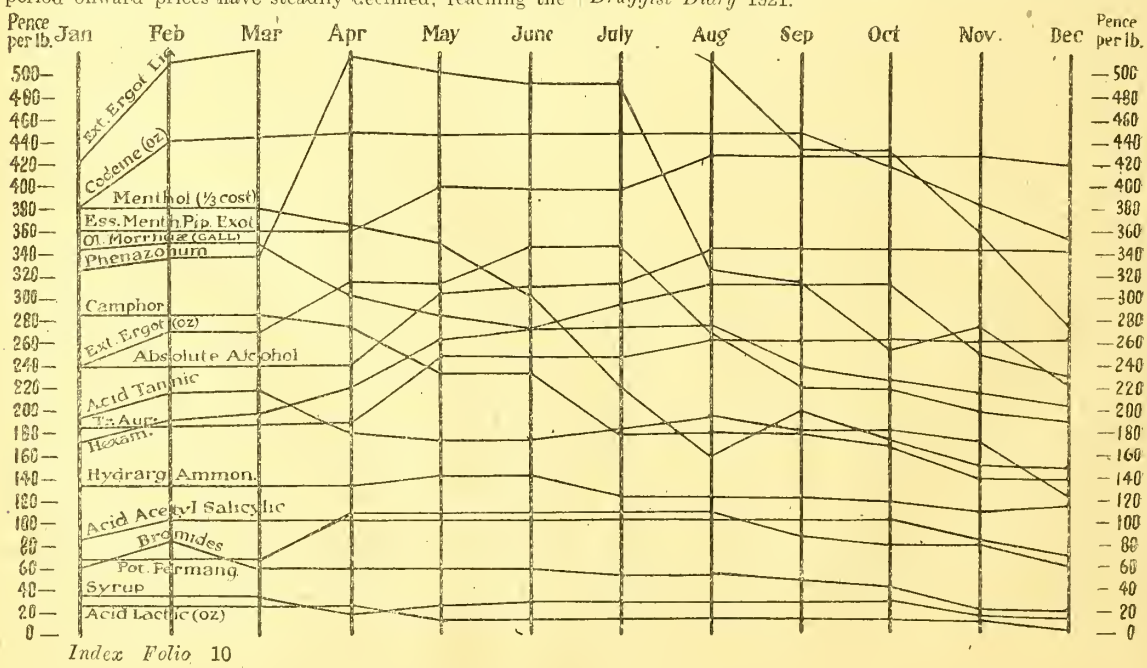
An indication of the present high cost of living in Germany is afforded by the fact that in one town the cost of board and lodging for an assistant living on the premises has been fixed at 350m. during the summer, and at 450m. during the winter months, which amount is deducted from a total salary of 1,050m. per month. The economic effect of the depreciation in the German currency is forcibly brought home by this startling contrast; what must the conditions be in countries with a still more depreciated currency, as is the case in Poland and in Austria?

Austria.

At the annual meeting of the general Austrian Association of Pharmacists, which was held in Salzburg on December 8 to 10, the new scale of remuneration for pharmaceutical assistants, to apply from January 1, 1921, was laid before the members. In the first place, it may be mentioned that salaries will not be paid out individually by the owner to his assistants, but each owner will contribute a certain amount, which will depend upon the locality of his business, to a central fund, out of which the salaries will be paid. The payments to be made by the owners to the central fund include not only the actual salary, but various contributions, such as assistance for non-employment, sick club, pensions, and the various extra charges entailed by the abnormal conditions of life at present prevailing in Austria. The total amount which each owner will be called upon to contribute ranges between 4,520 and 6,160 crowns a month (nominally 188*l.* 6*s.* and 256*l.* 13*s.*). The salaries to be paid to pharmaceutical assistants are graded according to the period which has elapsed since qualifying, there being altogether twelve classes, each representing a period of three years. The annual salary thus ranges from 21,000 crowns for an assistant of one to three years' experience to 36,400 crowns for a man who has been an assistant for thirty-four years and over (nominally 875*l.* to 1,516*l.*). In addition to the actual salary, a local extra allowance, ranging from 8,400 crowns to 28,000 crowns, according to the locality (nominally 350*l.* to 1,166*l.*) will be paid, as well as an "allowance to cover the high cost of living." Further, married men will receive an additional allowance, representing, according to the locality, an additional annual grant of 2,800 to 5,600 crowns for each member of his family. To illustrate the fantastic heights to which salaries of pharmacists have risen in Austria in consequence of the depreciated currency, it may be mentioned that the minimum salary of a married man without children, of under three years' experience, will amount to 2,100 crowns a month, while the maximum, for a man of thirty-four years' experience, married, but without children, engaged in a pharmacy in Vienna, will aggregate 4,600 crowns; these sums would represent, at par, salaries of 82*l.* 5*s.* and 191*l.* 13*s.* respectively; at the present rate of exchange they are equivalent to thirty shillings and sixty-seven shillings respectively. These figures afford a striking practical illustration of the desperate straits to which Austria has been reduced.

The Trend of Drug Prices.

CHEMISTS have been aware of the extraordinary fluctuations in the wholesale prices of drugs and chemicals during the year that has just closed. After the first three months the cost of almost everything was ascending, the climax being reached in July, though there was a temporary setback owing to wage increases in August. From that period onward prices have steadily declined, reaching the equivalent of pre-war prices in some cases. Much of the decline is due to large importations from countries with an exchange at lower values than in this country, but whether the fall will continue at the same rate is problematical. Hence the question of how to buy will continue to be a difficult one in the New Year. The changes in the wholesale prices of a selection of chemicals is shown in the diagram herewith. This can be usefully compared with the article giving a comparison of costs from 1914 to 1920 which is printed in *The Chemist and Druggist Diary* 1921.



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The Income-tax Payers' Position.

THIS is the season at which the ordinary citizen is liable to be so unpleasantly reminded not only that the burdens of the State are heavy and grievous to be borne, but also that the State has no other means of discharging its burdens than by passing them on to its citizens. Many political theorists are hopeful that a perception of these facts may lead to a demand for economy in the conduct of national affairs, which will result in the cutting down of the State expenditure which makes heavy taxation inevitable. However this may be, it is a matter of prime importance to every taxpayer that he should have as clear a conception as the nature of the subject permits of what the State is entitled to call upon him to pay by way of taxes.

Of these imposts the income-tax stands out with grim pre-eminence. By the Finance Act, 1920, very important changes were made in the methods of assessment and charge, the character of which is still by no means generally understood. To get a clear view of the position it is best to begin with the fact that, so far as regards the great body of the assessments—namely, those under Schedule D and those under Schedule E—the old basis for ascertaining the total income of the taxpayer remains. Under Schedule D a trader is assessed on the profits of his trade for any tax year by taking the average of the profits from his trade for the three years immediately preceding the tax year. These profits still continue to be taken as the balance of profits which accrue from the business after such trading expenses are deducted as are wholly and exclusively incurred in connection with the trading. In the case of assessments under Schedule E the total income continues to be that actually received by the taxpayer within the tax year. It is in the treatment of the total income thus arrived at that the Finance Act, 1920, has made such important changes. The total income being ascertained, the Act proceeds to deal with it in this way. If the income is "earned" income one-tenth is deducted from it, provided this tenth does not exceed 200*l.*, and the balance remaining after the deduction is known as "assessable" income. In the case of unearned income no such deduction is made, and the total income is also the assessable income. When the assessable income has been found, certain deductions have to be made in order to arrive at the "taxable" income, or amount upon which the tax at the appropriate rate is charged.

1. There is first the personal allowance of 135*l.*, which is increased to 225*l.* in the case of a person who is married and maintaining his wife. This allowance is of general application.

2. If the taxpayer's total income includes any earned income of his wife he is allowed a further sum equal to nine-tenths of this earned income, provided this additional allowance does not exceed 45*l.*

3. A deduction is also allowed for any child under the age of sixteen, including a step-child or adopted child, at the rate of 36*l.* for the first and 27*l.* for any additional child. But this is only granted where the child is not entitled in his or her own right to an income of more than 40*l.* a year.

4. A deduction of 45*l.* may also be obtained in respect of a widower's or a widow's housekeeper living with him or her for the purpose of taking charge of children.

5. A like deduction of 45*l.* may be claimed, under certain conditions, by a bachelor who has living with him, and maintains at his own expense, either his mother, if she is a widow or is living apart from her husband, or some other female relative who is living with him for the purpose of looking after his children.

6. A deduction is also allowed of 25*l.* in respect of anyone whom the taxpayer maintains at his own expense and who is a relative of his or of his wife, and incapacitated by old age or infirmity from maintaining himself or herself, and provided the person relieved has not an income of more than 50*l.* a year.

When these deductions, where appropriate, are made from the assessable income we get the taxable income on which the tax is levied. Income-tax is charged at the rate of 3*s.* in the £ on the first 225*l.* of this taxable income, and at the rate of 6*s.* in the £ on the remainder. When the amount of the tax has been ascertained there may be further deductions which may be claimed from it. Thus a premium paid for life insurance or for the purchase of a deferred annuity entitles the taxpayer to a deduction which varies according as the policy was taken out before or after June 22, 1916. If the total income does not exceed 1,000*l.* the allowance is at the rate of 3*s.* in the £; if the income exceeds 1,000*l.*, but does not exceed 2,000*l.*, the allowance is 4*s.* 6*d.* in the £ on policies taken out on or before June 22, 1916. A deduction made from the salary or stipend of a taxpayer for the purpose of securing a deferred annuity to his widow or provision for his children after his death is looked upon as a premium entitling to an allowance.

A couple of typical examples will show the working of the Act.

1. A is a married man with a salary of 480*l.* and no other income. He has three children living with him, each under sixteen years of age.

			£	s.	d.
A's actual income			480	0	0
Deduct one-tenth			48	0	0
Assessable income			432	0	0
Deduct:					
		£			
Personal allowance		225			
	£				
Children, first child ...	36				
Two other children ...	54				
	—	90			
		—	315	0	0
Taxable income			117	0	0
Tax at 3*s.* in the £ thereon			17	11	0

2. B's total income consists of a salary (or trade profits) of 800*l.* and of 50*l.* from 5 per cent. War Loan on which income tax is not deducted. He is married, has two children under sixteen years of age, maintains his widowed mother, and pays a life assurance premium of 20*l.*:

		£	s.	d.
B's actual income		850	0	0
Deduct one-tenth of earned income		80	0	0
Assessable income		770	0	0
Deduct:				
	£			
Personal allowance	225			
For first child	36			
For second child	27			
For widowed mother	25			
	—	313	0	0
Taxable income		457	0	0
Tax thereon:				
225*l.* at 3*s.* in the £		33	15	0
232*l.* at 6*s.* in the £		69	12	0
		103	7	0
Deduct:				
Allowance of tax on life assurance premium 20*l.* at 3*s.* in the £		3	0	0
Net tax payable		100	7	0

Taxpayers may be reassured to learn that, although allowances and deductions in respect of income-tax assessments have, as a rule, to be claimed by the taxpayer at the time he makes his return, a claim, if made without any further delay, would be entertained by the Commissioners upon the current year's assessments.

The Profiteering Act.

Proceedings Tabulated.

THE subjoined table continues to the end of the year 1920 our record of complaints heard and prosecutions initiated under the Profiteering Act. From it are excluded (1) cases brought against tradesmen other than chemists or limited companies trading as chemists, (2) cases withdrawn without a hearing, and (3) cases in which the statements of the complainants were not accepted by the Committees. The complaints tabulated during the past six months number fifteen, relating to a total retail value of 1*l.* 17*s.* 3*d.*, an average of 2*s.* 5.8*d.* each. In five of these cases refunds were ordered, amounting to 3*s.* 8½*d.*, or 9.96 per cent. of the amount in respect of which charges of profiteering were brought. The two prosecutions (one of which relates to a complaint heard during the previous six months) resulted in acquittals. The respective numbers of cases in the five quarters during which the Act and its amending Act have been in operation are as follows: First quarter, 123; second and third quarters (average), 43½; fourth and fifth quarters (average), 7½. In view of the frenzied efforts lately made in interested circles to revive the flagging activity of Profiteering Committees, the decline in proceedings during the past six months is gratifying. It serves to strengthen the belief that the Act in its inception was merely a political red-herring.

The symbols adopted in the "Decision" column are: D—dismissed; DA—dismissed on appeal; R—refund; P—prosecution. An asterisk indicates a case appearing in both tables. Previous tables will be found in the *C. & D.*, 1919, p. 1,494; II., 1920, p. 921.

Complaints.

Subject	Price	Decision	Locality	Index Folio
Brompton cough lozenges 1 oz.	6*d.*	D	Grayshott ..	1,456
Cream of tartar, 1 oz. ..	6*d.*	D	Hampstead ..	921
* " " 1 oz.	8*d.*	R 2*d.*, P	Camberwell	1,356
Dispensing	7*s.* 6*d.*	D	Hampstead ..	1,425
"	4*s.* 6*d.*	D	London, E.C.	1,456
"	5*s.*	D	Lambeth ..	1,493
"	2*s.* 6*d.*	D	London, E.C.	1,660
Hair-wash, 1 pint ..	8*s.* 6*d.*	R 2*s.* 6*d.*	Westminster	1,493
Lime water, 25 fl. oz. ..	1*s.*	R 4½*d.*	Chester ..	1,241
Liquorice juice, 1 oz. ..	8*d.*	D	Bermondsey	1,522
Potassium permanganate, 1 oz.	1*s.* 1*d.*	D	Kensington ..	1,064
Quinine, two 5-gr. tablets	1*s.*	R 6*d.*	Westminster	1,493
" ammoniated tincture 1 oz.	10*d.*	R 2*d.*	Hackney ..	1,522
Teething-powders, six ..	6*d.*	DA	Hemsworth	1,722
Tragacanth, powdered, 1 oz.	2*s.* 6*d.*	D	Islington	1,095

Prosecutions.

Subject	Price	Decision	Locality	Index Folio
*Cream of tartar, 1 oz.	8*d.*	D	Lambeth ..	1,552
Vaseline, white, 2½ oz. ..	1*s.* 6*d.*	D	Acton ..	986

DEAURANDA.—"The profiteer's lady called in a Harley Street specialist to attend her husband, who complained about a little huskiness in his throat. 'I think I might paint the throat with nitrate of silver,' said the doctor. 'Oh, doctor,' said the devoted wife, 'expense is no object; do, pray, use gold.'"—*The Morning Post.*

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Personalities.

MR. J. W. WRIGHT, chemist and druggist, Burnley, celebrated his seventy-sixth birthday on Christmas Day.

MR. ARTHUR WOOLLEY VALLANCE, son of Mr. A. C. Vallance, Ph.C. (a director of James Woolley, Sons & Co., Ltd., Manchester), has won a modern history scholarship at Lincoln College, Oxford.

MR. A. S. FURLONG, Waterford, has been reappointed traveller in Ireland for H. Gordon, Ltd., druggists' sundriesmen, 6 and 8 City Road, Finsbury Square, London, E.C. 1. Mr. Furlong, who is well known in Ireland, will be assisted by his son, Mr. J. J. Furlong.

MR. SYDNEY H. STROUD, F.I.C., Ph.C. (son of Mr. H. N. Stroud, a director of John Richardson & Co., Leicester, Ltd.), lecturer in pharmacy at the University of Sydney, has been selected by the Pharmaceutical Society of New South Wales as its representative at a pharmaceutical conference at Hobart, Tasmania.

MR. ARTHUR BERTON, managing director of Arthur Berton, Ltd., druggists' sundriesmen, Worship Street, London, E.C. 2, was on December 24 presented with a silver inkstand and clock, suitably inscribed, as a token of esteem, from the departmental and works managers of the company. Mr. Berton acknowledged the gift in appropriate terms.

MR. R. L. GUTHRIE, M.D., barrister-at-law, has been appointed coroner for the Eastern District of the County of London, in succession to the late Mr. Wynne Baxter. Dr. Guthrie was deputy-coroner in North-East London for some years prior to 1914, when he took a commission in the R.A.M.C., serving for nearly five years both in France and at home, and retiring with the rank of lieutenant-colonel.

CONSUL H. MADOERY, President of the Chemical Works Madoery, Ltd., Basle, intends making a tour round the world at the beginning of next year, and will visit the following countries among others: India, Ceylon, Straits Settlements, Java, China, Japan, United States, Mexico, the West Indies. He hopes to get into personal touch with all the respective commercial quarters, with the idea of buying raw materials at first hand, and enlarging the company's network of agencies.

MR. S. C. GADD, younger son of the late Alderman H. Gadd, J.P., Exeter, was on December 16 the recipient of presentations from the directors and staff of Evans, Gadd & Co., Ltd., on the occasion of his approaching marriage. Mr. W. J. Wippell and Mr. F. Southerden, on behalf of the directors, presented him with a cheque and an oil painting, and Mr. T. H. Smyth, on behalf of the employees, with a silver kettle and stand. Reference was made by the directors, Mr. Smyth, Mr. W. Sayer, Mr. T. Winsley, Mr. N. Knight, and Miss Rew, to the high esteem in which Mr. S. C. Gadd is held.

ALDERMAN G. CLARIDGE DRUCE, LL.D., Oxford, has received from President T. Masaryk, of the Czecho-Slovakian Republic, a letter thanking him for his notes on that country. The President, continues the letter, accepted these notes "with joy, and remembered the days of your visit to Prag. The beautiful articles united in this booklet already had excited his interest when appearing in the 'Oxford Chronicle.'" It may be remembered that Dr. Druce was one of the members of the International Society of Journalists invited to Prag for the election of the President last May, when visits were also paid to Carlsbad, Marienbad, Pilsen, and Skoda. Dr. Druce gave a lecture on Czecho-Slovakia on December 28 in the Oxford University Museum to a crowded audience.

A TOPICAL CARTOON.—We have received from C. E. Fulford, Ltd., Leeds, a copy of a cartoon entitled "Our Sick World." The world is represented as a patient with a much-bandaged head, who is holding a crutch with one hand, while the other clasps a large box of "Zambuk." A quotation from Shakespeare points the moral.

Birth.

KEMSEY-BOURNE.—At 255 High Street, West Bromwich, on December 28, 1920, the wife of C. W. Kemsey-Bourne, chemist and druggist, of a son.

Marriage.

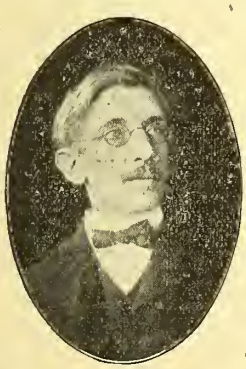
CROSSLEY—SMITH.—At St. Paul's Church, King Cross, Halifax, on December 14, 1920, Thomas Crossley, chemist and druggist, Doncaster, to Ivy, younger daughter of Mr. J. C. Smith, Littlehaven, Triangle.

Deaths.

BURROWS.—At Post Office Square, Beeston, Nottingham, on December 24, 1920, of pneumonia and pleurisy, Mr. Frank Burrows, chemist and druggist, aged forty-eight. Mr. Burrows was an accomplished pharmacist whose early death is much regretted in Nottingham and the district. At the British Pharmaceutical Conference of 1919 he was the joint author of a note on tinctures of iodine, the investigation for which was carried out in the laboratory of Boots Pure Drug Co., Ltd. Mr. Burrows was usually on the Nottingham Pharmaceutical Association's list of lecturers; he was also the author of monographs on local history, and was well known in Masonic circles. The funeral took place at Beeston on December 28, numerous floral tributes testifying to the esteem in which Mr. Burrows was held. The Nottingham Pharmaceutical Association was represented by Mr. G. F. Godson (President), and Messrs. Ball, Beilby, Cragg, and Meakin.

CANTRELL.—At 203 Middlewood Road, Sheffield, on December 20, 1920, Mr. William Cantrell, chemist and druggist, aged eighty. Mr. Cantrell was for many years in business at 131 Attercliffe Common. The funeral took place on December 27 at Wadsley Parish Church.

CORNISH.—At Edmonton, Canada, on November 18, 1920, Mr. John Robert Cornish, chemist and druggist and optician, McLaughlin, Alberta. Mr. Cornish passed his early years in England, his apprenticeship in pharmacy being served to Hickman & Metcalf, Newbury. He qualified in 1884, and three years later went out to Singapore as assistant (subsequently becoming a manager) to Maynard & Co., Ltd. While in the Straits Settlements, Mr. Cornish acquired a conversational knowledge of Malay, Chinese, and Tamil, and photographed the King of Siam and other notabilities. After five years' experience of this kind, he accepted an engagement to travel through China and Japan; returning to England in 1893, he purchased a business in Tottenham. Here he remained for several years, becoming well known as an expert optician; in 1905 he was elected President of the Society of Chemist-Opticians, and a few years later he contributed an article on retinoscopy to *The Chemist and Druggist Diary*. Mr. Cornish had considerable musical gifts; and was widely esteemed for his genial disposition. For the past few years he had carried on business in Canada, where he leaves a widow and family. The pall-bearers at the funeral were members of the Masonic lodge to which Mr. Cornish belonged.



MR. J. R. CORNISH.

DOIG.—At Marrbank, Newport-on-Tay, on December 27, 1920, Harriette Louise, beloved wife of Mr. John L. Doig, chemist and druggist (William Doig & Sons, chemists, Dundee and Newport).

GUTHRIE.—At an Edinburgh nursing home, on December 27, 1920, following an operation, Mr. Andrew Dixon Guthrie, chemist and druggist, 199 Ferry Road, Leith, aged seventy-two. Prior to establishing himself in business in Leith, Mr. Guthrie spent some years in South America. He was a pioneer in the spread of photographic knowledge among amateurs thirty years ago, and had built up a flourishing business.

HIGGINS.—At Blackpool, recently, Mr. Charles Higgins, chemist, formerly in business at Halifax.

MCCARTHY.—At Osaka, Japan, on December 10, 1920, Mr. Herbert J. McCarthy, the faithful and much esteemed representative of Frederick Stearns & Co., Detroit, Michigan, U.S.A.

SHAW.—At Mountfield, Holmfirth, on December 18, 1920, Mr. Frederick Bertram Shaw, chemist and druggist, aged forty-eight. Mr. Shaw established himself in business in Holmfirth shortly after qualifying in 1895. He was a member of the local Insurance Committee, and was keenly interested in ambulance work and in sport.

SMITH.—At 7 Castle Street, Stroud, Gloucestershire, on December 21, 1920, Mrs. Smith, widow of the late Mr. David Smith, chemist and druggist, and mother of Mr. Hedley C. Smith, chemist and druggist, High Street, aged eighty-eight.

STEVEN.—At the Isolation Hospital, Newcastle, Staffordshire, on December 24, 1920, of scarlet fever, Mr. Robert Steven, chemist and druggist, aged thirty-seven. Mr. Steven was a native of Wick, Caithness, and served his apprenticeship with Mr. W. Manson, Morningside Road, Edinburgh. He commenced business in Liverpool Road, Stoke-on-Trent, a year ago, and had already established a successful business.

Coming Events.

Monday, January 3.

Society of Chemical Industry, Chemical Society's Rooms, Burlington House, Piccadilly, London, W., at 8 P.M. Ordinary meeting. Members will dine, before the meeting, at the Florence Restaurant, Rupert Street, London, W., at 6.15 P.M. Tickets (6*s*. 6*d*. each) from the Secretary, Central House, Finsbury Square, E.C.

Wednesday, January 5.

Pharmaceutical Society of Great Britain, 16 Bloomsbury Square, London, W.C., at 11 A.M. Council meeting.

London (Western) Pharmacists' Association. Sub-district meeting of Chelsea and Fulham chemists, Chelsea Town Hall (Manor Gardens entrance), at 8.30 P.M. Mr. A. R. Melhuish on "The Retail Pharmacists' Union."

Liverpool Chemists' Association. Children's party at 4 P.M.

Saturday, January 8.

National Union of Commercial Travellers, Central Hall, London, S.W., at 3 P.M. First London public meeting. Speakers include Rt. Hon. J. R. Clynes, M.P., and Margaret G. Bondfield.

MERSEYSIDE AND SOUTHPORT PHARMACEUTICAL FREEMASONS.—The inaugural dinner will be held at the Exchange Station Hotel, Liverpool, on January 12. The subscription list closes on January 5. Tickets (12*s*. 6*d*. each) from Mr. R. G. Govier, 35 King Street, Wallasey.

LONDON (WESTERN) PHARMACISTS' ASSOCIATION.—A Cinderella dance will be held at the Holborn Restaurant, London, W.C., on January 19, at 7.30 P.M. Tickets (10*s*. 6*d*. each, including supper) from Mr. B. R. Wilkinson, 23 Cromwell Place, South Kensington, S.W.

EALING PHARMACISTS' ASSOCIATION.—The annual dinner will be held in the Princess Room, Ealing Town Hall, on January 20, 1921. Reception at 7 P.M. Tickets (10*s*. 6*d*. each) from any member of the Committee, or from the Secretary. Morning dress. Ladies specially invited.

INDIAN OPIUM FOR CHINA.—At the request of the Hong Kong Government, the Indian Government has agreed to the renewal of the agreement for a direct supply of opium at a fixed price for five years, as from the beginning of 1921.

ESTIMATE OF OLIVE-OIL YIELD OF TUNISIA.—According to preliminary figures issued by the Tunisian Government, the regency's olive-oil yield for 1920 is given at 40,000,000 kilos., compared with 12,000,000 to 16,000,000 kilos. in 1919 and 40,000,000 kilos. in 1918.

Trade Notes.

METHYLATED SPIRIT.—The Methylating Co., Ltd., Finsbury Court, Finsbury Pavement, London, E.C. 2, announce a reduction in the price of methylated spirit.

DOAN'S THERMOMETER.—Foster-McClellan Co., 8 Wells Street, Oxford Street, London, W. 1, offer to send gratis one of the Doan thermometers, which interest passers-by, especially during the winter months.

HEROGEN PRICES.—The British Drug Houses, Ltd., 22-30 Graham Street, City Road, London, N 1, announce that, from January 1, the prices of Herogen tonic food will be reduced to 1*s.* 6*d.*, 2*s.* 6*d.*, and 3*s.* 9*d.*

THE CHAS. H. PHILLIPS CHEMICAL CO., 14 Henrietta Street, Covent Garden, London, W.C. 2, announce that from January 1 their goods will be sent carriage forward. The great increase in the cost of carriage has compelled the company to make this change.

WINTER SPECIALITIES.—Evans Sons Lescher & Webb Ltd., 60 Bartholomew Close, London, E.C. 1, inform us that the preparations referred to in this column last week are not Elco brand specialities, nor can the chemist's name and address be printed on the packages.

BROWNE'S CHLORODYNE.—J. T. Davenport, Ltd., 117 Union Street, London, S.E. 1, in view of the amendment of the poison schedule, which comes into force on January 3, announce that Dr. J. Collis Browne's chlorodyne is not a poison within Part I. of the schedule, and therefore the retail purchaser's signature is not required.

THE WESTERN TABLET CO., LTD., 106 Church Street, London, W. 8, have sent out to their customers a New Year's greeting in the form of a deed of gift. This *quasi*-legal document ends by wishing the person who receives it "Best wishes for a Bright and Prosperous New Year."

INSURANCE POLICIES.—Chemists who wish to cover all their trade risks with a large insurance company—and January 1 is a favourable time for the change—should write for particulars of the Pool policies issued by the Licenses and General Insurance Co., Ltd., Victoria Embankment, London, W.C. 2.

TRANSPARENT ENVELOPES.—We have inspected samples of transparent envelopes made by George Owen & Son, Florence Street, Holloway Head, Birmingham, and find them well-finished products. The envelopes are made in many sizes and shapes. Samples will be sent on application, and prompt deliveries are promised.

PRICE-LISTS OF FINE CHEMICALS.—The Cooper Laboratory, Watford, send out a price-list of indicator dyes, chemically pure reagents, and standard acids and alkalis which, beside prices, gives useful information regarding the uses of the indicators. The same manufacturers also issue a complete list of compressed tablets, and announce that they make the various quinine salts used in medicine.

SEASON'S GREETINGS.—In addition to the large number of Christmas and New Year's greetings to the trade which advertisers have inserted in the *C. & D.*, the following appear in this issue:

Carnegie Bros.
Evans, Gadd & Co., Ltd.
Ernest Jackson & Co., Ltd.
N. W. Mitchell & Sons, Ltd.

SWEDISH WOOD PRODUCTS.—Mr. T. Stromwall, 40 and 42 Queen Victoria Street, London, E.C. 4, who is the agent for the Association of Swedish Wood Distilleries, sends us a list of the products which he imports. These include various kinds of wood tar and wood-tar oil, turpentine, pitch, acetate of lime, and wood spirit. To his customers Mr. Stromwall is sending out a combined blotter and paper-weight for desk use.

CHEMISTS' ASSISTANTS ARE ON STRIKE in Chishinau, the chief town of Bessarabia, for increase of wages, their salary amounting at present to 800 fr. (about 2*l.* 10*s.*) monthly.

Trade-marks Applied for.

The figures in parentheses refer to the classes in which the marks are grouped, for a list of which, with particulars as to registration. See "The Chemist and Druggist Diary, 1921,

(*From "The Trade-marks Journal," December 22, 1820.*)

"VITAMON," oval device; for medicinal chemicals (3). By Aktieselskab Vitamon, Strandvej 54, Hellerup, Copenhagen, Denmark. 406,315. (Associated.)

"JAPOLINE"; for an external and internal medicine (3). By Michell & Co., 35 Victoria Dock Road, London, E. 16. 406,690.

"STOMO-TABS"; for a medicine (3). By H. H. Mason, 59 Dingwall Road, Croydon. 407,097.

"KREOPINE"; for medicinal chemicals (3). By Moults', Ltd., 123 Prince's Street, Stockport. 408,302.

"PAXSTOMA"; for food substances (42). By Margaret I. Henderson, 125 Sussex Road, Southport. 399,213.

"EVAN WILLIAMS," facsimile signature; for toilet preparations (48). By the Evan Williams Co., Ltd., 18 Ogle Street, London, W. 1. 396,004.

"KENMA"; for toilet articles (48). By Janet Moore, 12 Hindes Road, Harrow, Middlesex. 408,268.

"RAGUY"; for perfumery, etc. (48). By L. Barbier, 4 Rue Paul Saunière, Paris. 408,281.

"ETURNEX"; for all goods (48). E. Turner & Co., 9 Exbury Road, London, S.E. 6. 408,619. (Associated.)

Proprietary Articles Trade Association.

THE following are the results of the recent election of representatives to the various sections of the Proprietary Articles Trade Association:

Manufacturers' Section.—There was no contest in this section, the retiring representatives—namely, John Bond, Ltd., John Steedman & Co., J. Grossmith & Son, Ltd., and C. Whelpton & Son, Ltd.—being re-elected.

Wholesale Section.—There was a contest in this section, the four retiring representatives—namely, Evans, Gadd & Co., Ltd., Evans Sons Lescher & Webb, Ltd., May, Roberts & Co., Ltd., and F. Newbery & Sons, Ltd.—being re-elected.

Retail Section Election.—A contest took place in this section, with the result that the first four in the list given below were elected:

	Votes
A. R. Keith	1016
J. Milner	1010
N. N. Armitage	932
A. J. Barnes	711
J. H. P. Bolton	550

There were 6,704 ballot papers despatched, of which 1,234 were returned, and of these 1,214 were valid.

Information Department.

INFORMATION WANTED.

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated:

B/2812. Japlin anti-rheumatic soap.
L/2812. Delsin rubber plasters.
S/2412. Tic Tic cotton wool.

INFORMATION SUPPLIED.

Inquiries regarding the following articles have been answered. The information as to supply will be given to others who send a stamped, addressed envelope to the Information Department, THE CHEMIST AND DRUGGIST, 42 Cannon Street, London, E.C. 4

Cadum ointment, S/2212
Coronet washing squares, D/2412
Dumbarton Castle health salts, D/2012
Haydock's pills, S/2912
Izal, S/2212
Mackay's auraline, D/2012
Pearson's wire brushes, S/2912
Reducine, S/2012

Observations and Reflections.

By Xrayser II.

The New Year

promises to be a busy and momentous one. He would be a bold man who should venture to forecast the course of events, even for the next few months, but we may certainly anticipate a strenuous time. Your review of the past year reminds us more than once or twice that questions of the highest importance affecting pharmacy, which have occupied months of anxious thought, are not yet settled; and they will in all probability be revived in a more urgent form while we are yet in a strait between a moribund order and one not yet born or only in the feebleness of infancy. Other questions of more than merely pharmaceutical import, though they affect us along with others, such as the unemployment difficulty, the increased cost of commodities and of labour, and others too numerous to mention, the worst of all being perhaps the feeling of instability and uncertainty which is the result of the sum of them, conspire to make the outlook dark enough even to a convinced optimist like myself. There is but one thing to be done, to "March breast forward, never doubting clouds will break." "To attain this end," says Mynheer Knickerbocker, in his "Veritable History," "difficulties had to be overcome; and they were overcome accordingly." Of course they were, as most difficulties may be if boldly tackled. I do not despair even of the Pharmaceutical Society, much less of the Retail Pharmacists' Union, but believe that, as your last week's leader says, a better time awaits the former than it has lately known, if only it has wisdom at the helm, and that the latter will eventually justify itself in spite of the sinister circumstances of its birth.

The "C. & D. Diary" for 1921

is equal in interest and usefulness to any of the series; indeed, I do not recall anything in these annuals of greater importance than the article, or series of articles, on "The Medicine Stamp Acts" with which the second half of the literary portion opens. Its particular value at the present moment lies in the fact that we are threatened with very grave alterations in the laws affecting proprietary medicines and their liability to stamp duty; and as there is not a pharmacist in the country who is not directly interested in these matters, it behoves us all to know exactly how we stand with regard to them. The historical sketch with which the article opens is a call to vigilance on our part, for it reminds us that only by timely action have we been able in the past to avert injurious interference with our liberties. The Dictionary of Difficulties which follows the first article seems to cover the whole ground and to give in the most convenient form possible a complete guide to the subject. The table showing the revenue from patent-medicine stamps for the last 120 years is an eye-opener to the immense growth and importance of the industry. Apart from other considerations, the Chancellor would be mad who lightly consented to see it crippled. Other items in the *Diary* of special importance just now are the article on National Health Insurance and the comparison of the cost of drugs and chemicals from 1914 to 1920.

Mr. Wolff's Paper

on the injunction (read at Liverpool) was admirable in tone, and all who have felt it incumbent upon them to oppose the Council's mode of procedure will appreciate the conciliatory way in which he refers to them. They are not the "traitors" they have been represented, but are as zealous for the welfare of the Society as those who more compliantly follow its leaders. All but the few extremists among them will, I venture to say, agree with Mr. Wolff that, however mistaken the Society's policy may have been in the past, it stands for something not only dear to us, but essential to our highest interests; and the majority of them will, if we really are committed to this hastily concocted scheme, devised in panic and thrust upon us by a *coup-de-main* though it was, be willing to help in perfecting it so far as is now possible. That it needs revising and improving few even of its supporters will deny; necessarily it is more or less of an experiment, and those who criticise it most keenly may be among its best friends. Personally, I do not profess to be in love with it, but I would rather see it accepted loyally as a step forward than made the occasion of quarrel and disruption.

Of Legal Responsibility

for the acts of the Local Associations Executive the Society may be free, but it is not so as regards moral responsibility. The President would not allow a conference of delegates to take any active step towards forming a trade union, but the L.A.E., which is the creature of such conferences, called and presided over by the President in his official capacity, is left at liberty to take what steps it pleases—is, I may say, encouraged to take them. It may be possible in this way to evade an injunction, but it deprives the L.A.E of all moral authority. We shall acquiesce, no doubt, as I have already said, it may be best to do so, yet it is putting a strain upon our loyalty that is all it can bear. The Council has done its best—or worst—to divide the trade against itself; we must do our best, when the time comes, to be a thoroughly united body, not in opposition to the Society but in determination to follow our own course independently of all outside influence. However the Union may have come into being it must stand on its own bottom, and it can only do this securely if we are all of one mind. This is what I understand Mr. Wolff to mean by his Liverpool address.

The Chemists' Defence Association

has been prompt in revising its rules to meet the situation created by the events of last week, but "the more haste the less speed" is a wise old saw, and probably the Association would have been well advised to wait awhile. Ought not the new members who are to be brought in by the Retail Pharmacists' Union to have some say in the matter? We are having our way made very plain for us; we have only to walk in the steps cut in advance, wheresoever they may lead; and what I have been saying about our willingness to help in shaping the new order seems rather superfluous. It will apparently soon be only our financial assistance that is needed. This might be the more readily forthcoming if we were treated a little less like dumb cattle being driven into a pen.

A New Use for Quinine

is described by Sir E. A. Wallis Budge in his recently published work, "By Nile and Tigris," in which an account is given of his expeditions into the East in search of treasures for the British Museum. On his way from Aleppo to Baghdad he had unexpectedly to entertain a party of Turks, and discovered at the last moment that all his coffee had been lost on the road. He therefore toasted some crusts of coarse bread till they were hard and black, crushed them into powder with a bottle, poured the mass into an old coffee-pot with water, and when it had boiled added twenty grains of quinine and a quantity of sugar. His guests drank the stuff with apparent relish, declared it to be "good coffee, by Allah," and asked for more; but whether this was an instance of Turkish politeness or a genuine tribute to his extemporised coffee Sir Wallis does not say.

The Difficulty of Getting Medicines

into some Eastern cities is well illustrated by Sir Wallis Budge's experiences in Baghdad and by what he was told by an American doctor who ran a private hospital there, in which natives were treated gratis. The pilfering of his consignments of drugs at the Customs House reached such a pitch—more than half the quantity of such drugs as quinine, chlorodyne, laudanum, and even lard being sometimes abstracted—that at last he made a complaint to the Baghdad Government. In reply he was informed that his drugs were necessarily "examined" before delivery, to ensure that nothing adulterated or not of the proper strength was given to Muslims, even in charity, and that some "specimens" had been "retained."

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Editorial Articles.

The Dentists Bill.

As we have pointed out on previous occasions, the Ministry of Health has a special aversion to chemists owing to the fact, probably, that the Ministry is headed by a politician doctor and staffed by medical practitioners. The Dentists Bill, of which the text is given elsewhere in this issue, furnishes further astounding evidence of this desire to penalise chemists because they are chemists. The dislike, however, is so clumsily displayed that we have every hope that chemists will the more easily be able to defeat the ill-natured intentions of this medical hierarchy. The first clause of the Bill prohibits the practice of dentistry by unregistered persons, but exempts medical practitioners—who need not necessarily know anything of dentistry—and also allows "the extraction of a tooth by a duly registered pharmaceutical chemist or duly registered chemist and druggist, where the case is urgent and no duly qualified medical practitioner or registered dentist is available **and the operation is performed without the application of any general or local anæsthetic.**" Such an inhuman provision was probably never, within modern times, embodied in a Parliamentary Bill. Even criminals are not operated upon without anæsthetics, but in this Bill a delicate woman or child is treated worse than a criminal because they have the misfortune to have a bad toothache when there is not a registered medical man or doctor within reach. We hope that chemists will get in touch with their member of Parliament and call attention to the brutality of this sub-clause. We feel sure that its callousness has only to be pointed out for members of the House of Commons to make short work, not only of such a sub-clause, but, if needs be, of the smug doctors who rule at the Ministry of Health. Another provision intended especially to penalise chemists is embodied in Clause 3 (3). This clause deals with the admission to the Register of dental practitioners, of members of the Incorporated Dental Society, of dental mechanics of five years' standing, and of persons who pass a special examination. The clause then proceeds to provide for the admission to the register of chemists who "had immediately before the commencement of this Act a substantial practice as a dentist," and whose practice included all usual dental operations, but such persons will be required to give an undertaking that "within five years from the date of being registered" they will "**cease to exercise the profession of a dentist and to carry on the business of a pharmaceutical chemist or chemist and druggist concurrently.**" It will be observed that no other person registered under the Act is required to give up any business he may carry on concurrently with dentistry; he may carry on an oil shop, drug store, or a grocer's, newsvendor's, or builder's business and not be interfered with, but a chemist whose name is on the Register of Chemists and Druggists is prevented from exercising his profession if he becomes registered as a dentist under this Bill. This is a most extraordinary provision, and can only proceed from the contemptuous spirit which the Ministry of Health has hitherto exhibited on almost every occasion when chemists' interests are concerned. This penalising of chemists in the Bill must be made one of the main points of attack. Every chemist who values his qualification—even if he does not practise dentistry—must see that his registration as a chemist is not made a disadvantage to him by Act of Parliament. It is time that chemists' rights were respected, even by Government Departments,

and we hope that during the Parliamentary recess, when members make a point of visiting their constituencies, chemists will point out to their members the injustice which the Dentists Bill proposes to inflict upon chemists because they are chemists. With the purpose of the Bill there is less to concern chemists. If it is necessary to take away from chemists any of the rights they possess at present, in common with all subjects of the King, to perform dental operations, this should be done without injustice to the public or victimising the chemist. It will be observed that every care is taken to conserve the interests of medical practitioners, but scurvy treatment is given to the many chemists who have expert knowledge and years of experience in tooth-extraction and the adaptation of artificial teeth. It is necessary for chemists to take action individually. We recommend that steps be taken at once to get in touch with members of Parliament, and that when Parliament meets again on February 15 members should receive a reminder of their promises at the personal interviews which we hope will be arranged within the next six weeks. Persistency is needed in the campaign, and promises to oppose the penalising provisions to which we have referred. We shall be glad if our subscribers will let us know the result of interviews or correspondence with their members of Parliament. It is proposed to apply the Act to the whole of the United Kingdom, so that Scottish and Irish chemists must add their weight to that of English and Welsh pharmacists in opposing the Bill.

Powers of Registered Companies.

THE extent to which the growth of joint-stock companies as trading concerns has gone of recent years makes the question of the legal position of such companies one of special interest to anyone engaged in any branch of industry. The shareholders or agents of a company are of course directly interested in anything which concerns the limits of the company's powers, and the interest equally extends to anyone who has or proposes to have dealings with the company. The position will be most easily grasped if we start with the general principle that, on the registration of a company, a new legal person is created having the attributes of a natural person, with certain exceptions. The company can acquire rights and also become subject to duties as a natural person may, but the extent to which this may happen depends on the purpose for which the company was created as set out in its memorandum of association. The House of Lords has gone so far as to lay down that the company has no existence except for the purposes set out in the memorandum. Any act which a director or the body of directors do or purports to do outside the powers of the company is void, or, as it is termed, *ultra vires*. If a person were to enter into a contract with an agent of the company for an object beyond its powers, he would not be able to enforce his rights under the contract, even if those acting for the company were to agree not to resist his suit to enforce the claim. Some exceptions on general principle are made to this legal rule. Thus, if a company lends money, although this is outside the objects for which it was formed, it may sue for the money, and if it actually pays for property which it had no authority to purchase, it is entitled to keep the property. The memorandum of association is therefore of vital importance to the relations of anyone having dealings with the company. And as the law requires the memorandum to be registered, and by this means made accessible to anyone who wishes to inspect it, a person who has relations with the company is considered to be acting with a knowledge of the limitations subject to which the company can legally act. One result of this rule deserves notice. If a person were to receive money or other property of a company from the directors or other of the company's agents, he might be held to be a trustee of the property and bound to return it to the company if in fact the transfer of the property to him took place in contravention of the provisions of the memorandum. And if directors purport to act for a company in matters beyond its powers, they themselves become personally liable to those with whom they entered into relations in the company's name. But a distinction is made in one case. If what the directors did without authority was an act which the company as a whole was competent to do, then the company may make the act valid by passing a resolution ratifying it. The question of what powers a company has is almost invariably made difficult by the practice of inserting in the memorandum not only specific powers, but also the wide general powers which are described as necessary to carry out the objects for which the company is formed. The words giving these general powers are not to be read independently. They have to be interpreted with reference to the specific powers: the memorandum has to be read as a whole. In applying these principles to find whether any act is within the powers of a company, it is the practice of the courts to ask first what is the main purpose for which the company was formed; then what are the special powers in the memorandum for the carrying out of this purpose; and next, if the act is outside the main purpose and not within the special powers, is it nevertheless incidental to the main purpose—something which might reasonably be done for carrying it out? If so, it will be an act within the powers of the company. The cases which have arisen will show how these rules work in practice. It was held that an industrial society incorporated for the purpose of securing benefits to its members could not subscribe to a strike fund. On the other hand, an insurance company may lawfully pay more on a claim than the claimant is entitled to. And although in the famous Osborne case it was laid down that an incorporated benefit society of railway servants could not subscribe money to a fund to be used to pay members of Parliament, it has been held that a company incorporated for the purpose of trading for profit as well as an association not formed for the purpose of profit may award pensions to its own retired officials. These decisions were based on the interpretation put on the company's memorandum in each case; but there are certain acts which a company may not do even where the memorandum purports to authorise them. Thus it cannot issue shares at a discount, nor can it purchase its own shares, or pay dividends out of capital—except under special conditions laid down in the Companies Act. Its power to spend its funds in litigation is strictly limited. A company cannot as a rule expend money in connection with legal proceedings to which it is not a party; but if one of its servants were proceeded against for damages for a libel contained in a statement which the company employed him to make, the money of the company might be used to pay his costs. The duty rests on the directors to see that there is no misapplication of the funds of the company. If dividends are paid to shareholders out of capital the directors are liable to be called upon to repay the money thus paid out. And in general, if they apply the funds of the company in any way which the law holds to be *ultra vires* and it cannot be recovered from the person to whom it is paid, the directors are liable to the company for the loss.

The Scientific Control of New Remedies.

DURING the past decade medical practitioners of all countries have been bewildered by the endless flow of new remedies. The genius of the synthetic chemist has been abundantly demonstrated by the discovery of new remedial agents, each marking, or presumed to mark, some improvement on a remedy already in use. Small wonder that, in view of the often conflicting opinions expressed by professional authorities as to the value of many of these products, the practitioner should impatiently decry them all and sundry. The demand has frequently been made that some recognised central body should undertake the study of these innovations, define their application, and also supply unbiassed data concerning their properties and mode of action. The first country to carry this oft-repeated requirement into effect is Holland, which has created a central institute whose duty it is to investigate all proposed new remedies and place the results at the disposal of the medical and pharmaceutical professions. Details were published at the time in the *C. & D.* In no country has this demand for a central institute been more insistent than in Germany, which has been mainly responsible for this enormous output of new synthetic drugs. In spite, however, of all efforts, a satisfactory solution of the problem was not achieved. In 1912 the German Society for Internal Medicine took the first step towards introducing a censorship of remedies already on the market. A commission was appointed to examine the advertisements in the Austrian and German medical journals and to decide whether they satisfied certain requirements. The numerous protests which followed the publication of the classified lists by the commission led to the abandonment of the scheme in the following year. It was recognised that the mere censorship of advertisements is an ineffective measure; it is necessary to investigate as well the composition and therapeutic value of these preparations, and to prove really effective this work could only be undertaken by a Government institution. The American Medical Association has for many years undertaken a campaign against nostrums, publishing the results of its investigations in its Journal. In addition, it also exerts a certain censorship over new remedies so far as their chemical composition is concerned, but does not undertake their pharmacological study as a routine procedure. Since the creation of a Government institution in Germany for the control of new remedies is out of the question, the German Society for Internal Medicine has now elaborated a programme for dealing with this matter. The establishment is proposed of a "German board for the investigation of remedial agents." The investigation is not to be limited to the chemical, pharmaceutical, and pharmacological study of each remedy, but is also to include thorough clinical tests, in order to establish whether the drug constitutes a really valuable innovation, and to ascertain as well its possible harmful properties. It is suggested that this new organisation be attached to the pharmacological institute of the Berlin University, and Professor Heffter has declared his willingness to carry out the necessary investigations. The first remedies to be examined on the above lines are those issued by firms of a doubtful professional status, and those acknowledged to be of problematic value, in order to establish definitely the exact position of both categories. It is apparent that the scope of the new German organisation is wider than any similar movement undertaken, even by the most determined opponents of synthetic products, as it represents a censorship based on an exhaustive study, including clinical experience, of all new remedies, and, indeed, of bodies of which the therapeutic value is still a matter of controversy. The publication of the results of the first investigations undertaken by the new organisation will be awaited with interest, as, in view of the conflicting opinions held by the various schools of medicine, they are not likely to pass unchallenged.

German Synthetic Camphor.

AMONG the German patents placed under compulsory administration by the United States Government during the war were those relating to the production of synthetic camphor. These particular patents were disposed of by the Receiver of Enemy Property, and, it is said, the purchasers found it impossible to work them satisfactorily without the assistance of the original owners. According to the "Frankfurter Zeitung," the purchasers have approached the German firms concerned with a view to securing the benefit of the latter's experience, so as to enable them to undertake the production of artificial camphor in the United States. It appears that the Schering Chemical Co. is jointly interested with a second company in the patents, and it is said that the experience and assistance of these two companies are to be rendered available to the American interests in return for the payment of a sum in cash dollars amounting to six figures. The amount is not to be paid in a lump sum, but is to be distributed over a period of years. We may add that it is no uncommon circumstance for German patent specifications to be unworkable from a practical point of view by third parties in Germany or other countries, unless the original owners disclose the manufacturing details only obtainable by practical experience. The truth of this fact was found out years ago by our armour-plate firms in the case of the production of nickel-steel armour-plate, and they were, therefore, compelled to pay the Krupp Co. a royalty of from 10*l.* to 15*l.* per ton for a licence, or, rather, for initiation at Essen into the precise details of manufacturing the nickel-plates, without which the specifications were of no value for the production of plate of the quality turned out at Essen, which it was necessary for our firms to attain, if not to surpass.

Poison Schedule Changes.

ATTENTION is directed to the changes in Schedule A of the Poisons and Pharmacy Act, 1908, which come into force on January 3. The schedule as amended is printed on the next page. The changes consist in the addition to Part I. of diamorphine and ecgonine and all preparations containing a tenth per cent. (one in a thousand) or more of diamorphine and ecgonine, and an alteration of the strength of coca alkaloids in coca, its preparations and admixtures, to a tenth per cent. or more. The strength of morphine in opium preparations or admixtures has been altered to one-fifth per cent. or more. As a consequence the coca entry disappears from Part II. The other alteration in Part II. has been the addition of zinc chloride and its liquid preparations, which have to be sold under the conditions attached to Part II., *except* when preparations are to be used for soldering or other purely industrial preparations, when they must be sold in closed vessels, labelled with the word "Poisonous," the name and address of the seller, and a notice of the special purpose for which the preparations are intended. This entry is evidently devised upon the lines of that dealing with carbolic acid, but it will be observed that it is so worded that soldering pastes, as well as liquids, containing zinc chloride are taken out of the schedule provided they are sold and labelled as specified. Zinc chloride disinfectants are presumably to be labelled in conformity with the requirements of the Pharmacy Act, although it may be that "other purely industrial purpose" includes disinfection in certain circumstances. No definition of "purely industrial purpose" has been given, and bearing in mind that the wording emanates from a Government Department which almost certainly takes a layman's view of poisons and their uses, it is impossible to define the meaning exactly.

POISONS AND PHARMACY ACT, 1908.

Poison Schedule as Amended by Orders in Council.

Revised January 3, 1921.

PART I.

Aconite, Aconitine, and their preparations.

Alkaloids—all poisonous vegetable alkaloids not specifically named in this schedule and their salts, and all poisonous derivatives of vegetable alkaloids.

Arsenic, and its medicinal preparations.

Atropine, and its salts, and their preparations.

Belladonna, and all preparations or admixtures (*except* belladonna plaisters) containing 0.1 or more per cent. of belladonna alkaloids.

Cantharides, and its poisonous derivatives.

Coca, any preparation or admixture of, containing 0.1 or more per cent. of coca alkaloids. (*Altered January* 3, 1921.)

Corrosive Sublimate.

Cyanide of Potassium, and all poisonous cyanides and their preparations.

Diamorphine (also known as HEROIN), and all preparations or admixtures containing 0.1 per cent. of diamorphine. (*Added January* 3, 1921.)

Diethyl Barbituric Acid, and other alkyl, aryl, or metallic derivatives of barbituric acid, whether described as veronal, proponal, medinal, or by any other trade name, mark, or designation; and all poisonous urethanes and ureides. (*Added to Part II. April* 14, 1913; *transferred to Part I. January* 14, 1918.)

Ecgonine, and all preparations and admixtures containing 0.1. per cent. of ecgonine. (*Added January* 3, 1921.)

Emetic Tartar, and all preparations or admixtures containing 1 or more per cent. of emetic tartar.

Ergot of Rye, and preparations of ergots.

Lead, in combination with oleic acid, or other higher fatty acids, whether sold as diachylon or under any other designation (*except* machine-spread plasters). (*Added May* 27, 1917.)

Nux Vomica, and all preparations or admixtures containing 0.2 or more per cent. of **Strychnine.**

Opium, and all preparations or admixtures containing 0.2 or more per cent. of **Morphine.** (*Altered January* 3, 1921.)

Picrotoxin.

Prussic Acid, and all preparations or admixtures containing 0.1 or more per cent. of prussic acid.

Savin and its Oil, and all preparations or admixtures containing savin or its oil.

PART II.

Almonds, Essential Oil of (*unless* deprived of prussic acid).

Antimonial Wine.

Cantharides, Tincture, and all vesicating liquid preparations or admixtures of.

Carbolic Acid, and liquid preparations of carbolic acid and its homologues containing more than 3 per cent. of those substances, *except* preparations for use as sheep-wash or for any other purpose in connection with agriculture or horticulture, contained in a closed vessel distinctly labelled with the word "Poisonous," the name and address of the seller, and a notice of the special purposes for which the preparations are intended.

Chloral Hydrate.

Chloroform, and all preparations or admixtures containing *more* than 20 per cent. of chloroform.

Digitalis.

Mercuric Iodide.

Mercuric Sulphocyanide.

Oxalic Acid.

Poppies, all preparation of, *excepting* red poppy petals and syrup of red poppies (papaver rhœas).

Precipitate, Red, and all oxides of mercury.

Precipitate, White.

Strophanthus.

Sulphonal and its homologues, whether described as trional, tetronal, or by any other trade name, mark, or designation. (*Altered April* 14, 1913.)

Zinc Chloride and liquid preparations of zinc chloride, *except* preparations intended to be used for soldering or other purely industrial purpose, provided that they are contained in closed vessels labelled with the word "Poisonous," and bearing the name and address of the seller and a notice of the special purpose for which the preparations are intended. (*Added January* 3, 1921.)

All Preparations or Admixtures which are not included in Part I. of this schedule, and contain a poison within the meaning of the Pharmacy Acts, *except* preparations or admixtures the exclusion of which from this schedule is indicated by the words therein relating to carbolic acid, chloroform, and coca, and *except* such substances as come within the provisions of Section 5 of this Act.

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The Dentists Bill.

A BILL

To Amend the Dentists Act, 1878, and the provisions of the Medical Act, 1886, amending that Act.

BE it enacted by the King's most Excellent Majesty, by and with the advice and consent of the Lords Spiritual and Temporal, and Commons, in this present Parliament assembled, and by the authority of the same, as follows:

Prohibition of Practice of Dentistry by Unregistered Persons.—1.—(1) No person shall, unless he is registered in the dentists register under the Dentists Act, 1878 (in this Act referred to as "the principal Act"), practise or hold himself out, whether directly or by implication, as practising or as being prepared to practise dentistry for fee or reward.

(2) Any person who acts in contravention of the provisions of this section shall, in respect of each offence, be liable on summary conviction to a fine not exceeding one hundred pounds.

(3) Nothing in this section shall operate to prevent—

(*a*) the practice of dentistry by a duly qualified medical practitioner; or

(*b*) the extraction of a tooth by a duly registered pharmaceutical chemist or duly registered chemist and druggist, where the case is urgent and no duly qualified medical practitioner or registered dentist is available and the operation is performed without the application of any general or local anæsthetic; or

(*c*) the performance in any public dental service of minor dental work by any person under the personal supervision of a registered dentist and in accordance with conditions approved by the Minister of Health after consultation with the Dental Board to be established under this Act.

(4) This section shall come into operation on the expiration of one year from the commencement of this Act or on the expiration of such further period not exceeding two years as His Majesty may by Order in Council direct.

Establishment and Constitution of Dental Board and Appointment of Registrar.—2.—(1) For the purposes of the principal Act and this Act there shall be established a Board (hereinafter referred to as "the Board") which shall be a body corporate by the name of the Dental Board of the United Kingdom, with perpetual succession and a common seal, and power to acquire and hold land without licence in mortmain.

(2) The provisions contained in the First Schedule to this Act shall have effect with respect to the constitution and proceedings of the Board.

(3) The seal of the Board shall be authenticated in manner prescribed by the Board, and any document purporting to be sealed with the seal so authenticated shall be receivable as evidence of the particulars stated in that document.

(4) For the purposes of the principal Act and this Act there shall be a registrar, who shall perform such duties in connection with the dentists register as the Board may direct.

(5) The first registrar shall be appointed by the General Council with the approval of the Privy Council, and any subsequent appointment to the office of registrar shall be made by the Board.

(6) The person first appointed to the office of registrar shall hold office until the expiration of the term of office of the first members of the Board, and shall receive such salary as may be fixed by the General Council with the approval of the Privy Council, and any person subsequently appointed to the office of registrar shall hold office for such period and shall receive such salary as may be fixed by the Board.

Right of Certain Persons to be Admitted to Register.—3.—(1) The Board shall make regulations providing for the admission to the dentists register kept under the principal Act of—

(*a*) Any person who makes an application in that behalf within the interim period and satisfies the Board that he—

(i) Is of good character; and

(ii) was for five years immediately preceding the commencement of this Act engaged as his principal means of livelihood in the practice of dentistry in the British Islands, or was admitted to membership of the Incorporated Dental Society not less than one year before the commencement of this Act; and

(iii) had attained the age of twenty-three years before the commencement of this Act; and

(*b*) any person who makes an application in that behalf within the interim period and satisfies the Board that he—

(i) is of good character; and

(ii) was for five years immediately preceding the commencement of this Act engaged as his principal means of livelihood in the occupation of a dental mechanic in the British Islands; and

(iii) had attained the age of twenty-three years before the commencement of this Act;

and who within two years from the commencement of this Act passes the prescribed examination in dental mechanics and within ten years from that date undergoes the prescribed training and passes the prescribed examination in dentistry.

(2) Any person who satisfies the Board that he was at the commencement of this Act engaged as his principal means of livelihood in the practice of dentistry in the British Islands, and within two years from the commencement of this Act passes the prescribed examination in dentistry, shall, for the purposes of the regulations under this section, be treated as having been engaged for five years immediately preceding the commencement of this Act in the practice of dentistry in the British Islands as his principal means of livelihood.

(3) Any person who is a duly registered pharmaceutical chemist or duly registered chemist and druggist, and who, if so required by the Board, gives to the Board the prescribed undertaking shall, if he proves to the satisfaction of the Board that he had immediately before the commencement of this Act a substantial practice as a dentist and that his practice included all usual dental operations, be treated for the purposes of the regulations under this section as having been engaged for five years immediately preceding the commencement of this Act in the practice of dentistry in the British Islands as his principal means of livelihood.

For the purposes of this subsection the expression "the prescribed undertaking" means an undertaking, in such form as may be prescribed, to the effect that the person giving the undertaking will within five years from the date of being registered under the principal Act cease to exercise the profession of a dentist and to carry on the business of a pharmaceutical chemist or chemist and druggist concurrently, or to such other effect as the Board may in any special case determine.

If any person registered under the principal Act by virtue of the provisions of this subsection fails to comply with the prescribed undertaking the Board shall remove his name from the register.

(4) The Board may on such conditions as they may consider proper dispense in the case of any person with any of the requirements prescribed by the regulations made under this section if they are satisfied that that person is unable to satisfy those requirements by reason of having served in His Majesty's forces, and that it will not be prejudicial to the public interest to dispense with those requirements.

(5) A person entitled to be registered under the principal Act by virtue of the provisions of this section shall not by reason only of being so registered be entitled to take or use any description other than the description of dentist or dental practitioner.

Dental Companies.—4.—(1) A body corporate may carry on the business of dentistry if—

(*a*) It carries on no other business; and

(*b*) all the directors, managers and operating staff thereof are registered dentists :

Provided that where any director or manager of any body corporate which is carrying on the business of dentistry at the commencement of this Act satisfies the Board within the interim period that he has for five years immediately preceding the commencement of this Act been acting as director or manager of any such body corporate, he shall be entitled to be entered as such a director or manager in a list to be kept by the registrar for the purposes of this section, and if so entered shall be entitled, notwithstanding that he is not a registered dentist, to act as a director or manager, but shall not by virtue of being so entered be entitled to practise dentistry.

(2) Save as aforesaid it shall not be lawful after the date on which the provisions of this Act prohibiting the practice of dentistry by an unregistered person come into operation for any body corporate to carry on the business of dentistry, and if any body corporate carries on the business of dentistry in contravention of the provisions of this section, it shall for each offence be liable on summary conviction to a fine not exceeding one hundred pounds.

Where a body corporate is convicted of an offence under this section every director and manager thereof shall, unless he proves that the offence was committed without his knowledge, be guilty of the like offence, and the court may in addition to a fine order that the name of any director or manager convicted under this provision shall be removed from the list aforesaid.

(3) Every body corporate carrying on the business of dentistry shall in every year transmit to the registrar a statement in the prescribed form containing the names and addresses of all persons who are directors or managers of the company, or who perform dental operations in connection with the business of the company, and if any such body corporate fails so to do it shall be deemed to be carrying on the business of dentistry in contravention of the provisions of this section.

(4) The list to be kept under this section shall be published in the prescribed manner.

(5) Nothing in this section shall operate to prevent the carrying on of the business of dentistry by any hospital which is approved for the purposes of this section by the Minister of Health after consultation with the Board.

Powers, etc., of Board and Registrar.—5.—(1) On the establishment of the Board under this Act there shall be transferred to the Board the powers and duties of the General Council under subsections (1), (3) and (4) of section eleven of the principal Act, and under section twenty-three of the Medical Act, 1886, so far as that section relates to orders made under the principal Act, and section forty of the principal Act shall have effect as though for references therein to the General Council there were substituted references to the Board, and references to the General Council in section thirty-nine of the principal Act shall be deemed to include references to the Board.

(2) On the establishment of the Board under this Act all existing rights and liabilities of the General Council arising out of or acquired or incurred in connection with the powers or duties of the Council which are by this Act transferred to the Board shall, by virtue of this Act, be transferred to and become rights and liabilities of the Board, and the dentists register kept under the principal Act by the Council, and all other records (if any) in the possession of the Council relating to matters arising under the principal Act, shall be delivered to the Board.

(3) Subject to the provisions of the principal Act and this Act, the Board may make regulations—

(*a*) generally with respect to the form and keeping of the register and the making of entries and erasures therein, and in particular for the registration of the description of persons entitled to be registered by virtue of this Act; and

(*b*) with respect to proceedings before the Board in connection with the removal from or restoration to the register of any name; and

(*c*) prescribing the fee, not exceeding five pounds, to be charged in respect of the retention on the register of the name of any person registered after the commencement of this Act in any year subsequent to the year in which that person was first registered; and

(*d*) for any other purpose for which regulations are to be made under this Act.

(4) A prosecution for any offence under the principal Act or this Act may be instituted by the Board.

(5) On the appointment of the registrar under this Act the provisions of the principal Act, and section twenty-three of the Medical Act, 1886, so far as that section relates to orders made under the principal Act, shall have effect as though for references therein to the general registrar or the registrar of the General Council there were substituted references to the registrar.

(6) A certificate purporting to be a certificate under the hand of the registrar stating that any person is, or was at any date, or is not, or was not at any date, duly registered under the principal Act or entered on any list to be kept by the registrar under this Act, or stating that any particulars are, or were at any date, or are not, or were not at any date, contained in the dentists register or any such list as aforesaid, with respect to any person, shall be conclusive evidence in all courts of law of the facts stated in the certificate.

Amendment of Sections 13 *and* 14 *of* 41 *&* 42 *Vict. c.* 33.—6.—(1) Section thirteen of the principal Act shall be amended as follows :

(*a*) The power conferred on the General Council by the first paragraph thereof shall be exercised by the Board :

(*b*) The following shall be substituted for the third paragraph thereof (but not including the proviso to that paragraph) :

"The Board may, and on the application of any medical authority shall, cause an inquiry to be made into the case of a person alleged to be liable to have his name erased under this section, and if the Board on any such inquiry are satisfied that the name of that person ought to be erased from the register, they shall forward a report to the General Council setting out the facts proved at the inquiry and the finding of the Board. The General Council, after receiving any such report, and after hearing any observations which the person affected or the medical authority may desire to make with reference to the report, may make an order directing the registrar to erase from the register the name of the person affected, and the order of the Council shall be final and conclusive and not subject to an appeal to any court : Provided that the General Council, if they are of opinion that further inquiry into the case is necessary, shall not themselves take any evidence for the purpose, but shall remit the case to the Board for further inquiry and report."

(2) The power of the General Council under section fourteen of the principal Act to direct the restoration to the register of any name or entry erased therefrom by the Council shall not be exercised except upon a report made to the Council by the Board, and the power to restore to the register any entry which has been erased by the Board shall be exercised by the Board.

(3) The amount of the fee to be paid on the restoration of any name or other entry to the register shall be such sum not exceeding five pounds as may be prescribed by the Board, and different fees may be prescribed in respect of different matters.

Application of Money Received and Accounts of Fees.—7.—(1) The Board shall, after paying any expenses incurred by the General Council in the execution of their duties under the principal Act and this Act, and any expenses of the Board, including the salary of the registrar, allocate any money received by them whether by way of fees or otherwise to purposes connected with dental education and research in such manner as the Board with the approval of the Council may determine.

(2) The Board shall keep accounts of all sums of money received or paid by them under the principal Act and this Act, and such accounts shall be audited in the prescribed manner and shall be submitted by the Board to the General Council at such times as the Council may require,

and shall be published annually, and laid before both Houses of Parliament in the month of March in every year if Parliament is then sitting, or if Parliament is not then sitting, within one month after the next sitting of Parliament.

(3) All securities representing moneys received by the General Council, by way of fees or otherwise, under the principal Act which are at the date of the establishment of the Board under this Act vested in the General Council or in any other person shall by virtue of this Act be transferred to and vested in the Board, and all sums representing any such moneys as aforesaid which are at the date aforesaid held by the General Council shall be transferred by the Council to the Board.

Amendment of Sections 6 *and* 7 *of* 41 & 42 *Vict. c.* 33.—8.—(1) In paragraph (*a*) of section six of the principal Act the words "graduate or" shall be inserted before the word "licentiate."

(2) Without prejudice to the provisions of section seven of the principal Act, any body being a medical authority within the meaning of the principal Act may from time to time transmit to the registrar certified lists of the persons who are graduates or licentiates of that body in dental surgery or dentistry, stating the qualifications and places of residence of the persons included in the lists, and the registrar, on receipt of any such lists and on payment of the registration fee in respect of each person to be registered, shall duly register those persons in accordance with regulations made by the Board.

Amendment of Section 12 *of* 41 & 42 *Vict. c.* 33.—9. In subsection (3) of section twelve of the principal Act, for the words from "and if the general registrar does not" to the end of the subsection there shall be substituted the words "and if no answer is returned to the inquiry within six months from the posting thereof it shall be lawful to erase the name of that person from the register."

Repeal of Section 17 *of* 41 & 42 *Vict. c.* 33.—10. Section seventeen of the principal Act (which gives power to the General Council to make, alter, and revoke orders and regulations) shall, as from the date of the establishment of the Board under this Act, cease to have effect, but any orders or regulations made by the General Council under that section shall continue in force except in so far as they may be varied or revoked by orders made by the Board under this Act.

Interpretation.—11.—(1) In this Act—

The expression "prescribed" means prescribed by regulations made under this Act:

The expression "registered dentist" means a person registered under the principal Act:

The expression "interim period" means the period between the commencement of this Act and the date on which the provisions of this Act prohibiting the practice of dentistry by unregistered persons come into operation, or such longer period as the Board may on an application made at any time within two years after the date aforesaid allow in the case of any person as respects whom the Board are satisfied that there were valid reasons for the failure to make an application before that date.

(2) In the application of this Act to Scotland, the expression "the Minister of Health" means, unless the context otherwise requires, the Scottish Board of Health, and the provision authorising the Board to institute prosecutions for offences under the principal Act or this Act shall not apply.

(3) In the application of this Act to Ireland, the expression "the Minister of Health" means, unless the context otherwise requires, the Chief Secretary, and any reference to a registered chemist and druggist shall include a reference to a registered druggist and to a licentiate apothecary.

Provisions as to Regulations.—12. Regulations made by the Board under this Act shall be submitted to the General Council for their approval, and shall, after being approved by the General Council, whether with or without modifications, be submitted for the approval of the Privy Council, and no such regulations shall have effect until they have been approved by the Privy Council.

Power of General Council to Act by Executive Committee.—13. The General Council shall have power for the purposes of the principal Act and this Act to act by their executive committee.

Short Title and Repeal.—14.—(1) This Act may be cited as the Dentists Act, 1920, and shall be construed as one with the principal Act, and this Act and that Act may be cited together as the Dentists Acts, 1878 and 1920.

(2) The enactments set out in the Second Schedule to this Act shall be repealed to the extent specified in the third column of that Schedule.

SCHEDULES.

FIRST SCHEDULE.

CONSTITUTION AND PROCEEDINGS OF THE BOARD.

1. The Board shall consist of thirteen members.

2. On its first constitution the Board shall be composed of the following persons, namely:

A chairman appointed by the Privy Council;

Three persons, not being registered medical practitioners or registered dentists, appointed by the Minister of Health, the Scottish Board of Health, and the Chief Secretary for Ireland respectively;

Three persons to be appointed by the General Council, of whom one shall be a member of the branch council for England, one a member of the branch council for Scotland, and one a member of the branch council for Ireland;

Five persons who are or have been engaged in the practice of dentistry, of whom one (who must be a person who was not registered under the principal Act before the passing of this Act) shall be appointed by the Privy Council, and of whom two shall be appointed by the Minister of Health, one by the Scottish Board of Health, and one by the Chief Secretary for Ireland.

3. The first members of the Board shall hold office for such term not exceeding three years from the commencement of this Act as the Privy Council may determine.

4. After the expiration of the term of office of the first members of the Board, the Board shall be composed of seven appointed members and five elected members.

Of the seven appointed members one (who shall be the Chairman of the Board) shall be appointed by the Privy Council, and three who shall not be registered medical practitioners or registered dentists by the Minister of Health, the Scottish Board of Health, and the Chief Secretary for Ireland respectively, and three by the General Council, of whom one shall be a member of the branch council for England, one a member of the branch council for Scotland, and one a member of the branch council for Ireland.

The five elected members shall be elected as follows:

(*a*) Two shall be elected by qualified dentists practising in England and Wales;

(*b*) One shall be elected by qualified dentists practising in Scotland;

(*c*) One shall be elected by qualified dentists practising in Ireland;

(*d*) One shall be elected by registered dentists not being qualified dentists:

Provided that on the expiration of eighteen years from the commencement of this Act His Majesty may by Order in Council direct that paragraph (*d*) of the foregoing provision shall cease to have effect, that "three" shall be substituted for "two" in paragraph (*a*) thereof, and that "registered" shall be substituted for "qualified" in paragraphs (*a*), (*b*), and (*c*) thereof, and the elected members shall, instead of being elected as aforesaid, be elected by all registered dentists voting together.

In the foregoing provision the expression "qualified dentists" means a person registered under the principal Act otherwise than by virtue of the provisions of this Act.

5. Any members of the Board other than the first members thereof shall hold office for a term of five years.

6. If the place of a member of the Board becomes vacant before the expiration of his term of office, whether by death, resignation, or otherwise, the vacancy shall be

filled by appointment or election by the body or persons by whom the member was appointed or elected, and any person appointed or elected to fill a casual vacancy shall hold office so long only as the member in whose place he is appointed or elected would have held office :

Provided that where the unexpired portion of the term of office of the vacating member is less than one year the vacancy shall not be filled.

7. Any member ceasing to be a member of the Board shall be eligible for re-appointment or re-election.

8. The powers of the Board may be exercised notwithstanding any vacancy in their number.

9. The Board may, with the approval of the General Council, make rules—

(*a*) for regulating the proceedings (including quorum) of the Board ; and

(*b*) for enabling the Board to constitute committees ; and

(*c*) for authorising the delegation to committees of any of the powers of the Board and for regulating the proceedings (including quorum) of committees.

SECOND SCHEDULE.

ENACTMENTS REPEALED.

Session and Chapter	Short Title	Extent of Repeal
41 & 42 Vict. c. 33	The Dentists Act, 1878	Section three ; section four ; section five from "and a person" to the end thereof : subsections (2) and (5) of section eleven ; section fifteen ; section seventeen as from the date on which the Dental Board is first constituted ; sections thirty-two and thirty-three ; in section thirty-six the words "and to the registrar of the branch council for that part of the United Kingdom in which the death occurs."
49 & 50 Vict. c. 48	The Medical Act, 1886	Section twenty-six down to "accordingly."

Westminster Wisdom.

By the "C. & D." Parliamentary Representative.

DYESTUFFS (IMPORT REGULATION) ACT.

This Act received the Royal Assent after midnight on December 23. Shortly afterwards Parliament prorogued until February 15.

HEALTH INSURANCE MEDICINES.

Mr. Casey, on December 23, asked the Minister of Health whether he is aware that Dr. Ritchie and Dr. Allott, of Hoyland Common, near Barnsley, have been informed by the Wakefield Insurance Committee that they were supplying or prescribing a quality of medicine to panel patients which was too expensive ; that Dr. Allott has been surcharged a sum of 15*l*. for this alleged offence ; that, in consequence of the restrictions imposed, the doctors have notified those members on their panel that in future they will be unable to supply or prescribe the quality of medicine which in their opinion is necessary in many cases under their care ; and what action he proposes to take to ensure that medical men are able to properly discharge their duties to their panel patients by being permitted to prescribe and supply that which is essential to a speedy recovery, irrespective of what is the cost of the drugs used.

Dr. Addison replied that he is having inquiry made. He added that medical benefit under the Insurance Acts includes the provision of "proper and sufficient medicines," and no doctor can be surcharged in respect of prescribing unless the character or quantity of the drugs is "in excess of what may reasonably be necessary for the adequate treatment of his insured patients," and then only on the report of the Panel Committee, consisting of doctors elected by the Insurance practitioners for the area. Any local decision to surcharge a doctor is subject to appeal to the Ministry of Health.

German News.

OPIUM REGULATIONS.—At its sitting of December 17, 1920, the German Reichstag passed the Government's Bill to regulate the sale of opium and narcotic drugs on the basis of the Hague agreement of 1912, an obligation imposed upon Germany by Article 295 of the Peace Treaty, which required that country to adhere to the international Opium Convention within twelve months of the enforcement of the Peace Treaty. In presenting the Bill the Government stated that, prior to the war, Germany had no reason to introduce new legislation restricting the sale of these narcotics. The Imperial Government had signed the Hague agreement at the time, but had not ratified it. During the war the prescribing of morphine and cocaine assumed such dimensions as to constitute abuse, and this induced the issue of a decree, March 22, 1917, whereby wholesalers were permitted to supply opium and other narcotics to pharmacies only, and to other undertakings only if in possession of a special permit. This decree had been issued to protect the public health, but in the course of time, when it became impossible to obtain supplies, economy in dealing with the available stocks of opium, etc., was effected by a more stringent control of the uses made of these drugs. Stocks of opium, etc., held by wholesalers and pharmacists had to be declared. A fresh supply of narcotics was only obtainable by means of a special licence, to be obtained from the Opium Distribution Office. In the new Bill all these safeguards have been retained, particularly the last one, whereby holders of a permit to deal in narcotics can obtain supplies only after previous application, in every single instance, for a permit from the Opium Office, and only for the stated amount.

THE GERMAN CHEMICAL INDUSTRY.—At a meeting of the Union of Common Interests of Manufacturers of Dyestuffs (including the Badische Anilin and Soda Works, Bayer & Co., the Aktien-Gesellschaft für Anilinfabrikation, the dye works of Meister, Lucius & Brüning, Leopold Cassella, Kalle & Co., Weiler-ter-Mer, and the chemical works of Griesheim) it was decided to extend the existing contract between the members, which expires on December 31, 1965, until December 31, 1999. Privy Councillor Dr. Duisberg (the Bayer Co.) addressed the meeting as follows :

The future will prove very difficult for the dyes industry. In the first place, this industry in America has been consolidated, whereby the number of works and the capital invested exceeds very considerably the total capital invested in the German dye industry. In America co-operation has also taken place, since the entire production, from that of coal to that of the dyes, has been united in one great trust. Competition will certainly be carried to the utmost extent (to the knife), and will undoubtedly force German manufacturers to give up all hope of securing a market for a very considerable proportion of their output.

The firms forming the anilin concern have concluded a new agreement creating, with a joint capital of 500,000,000m., contributed in a fixed ratio by all participants, a new undertaking to be known as the "Ammoniakwerke Merseburg, Oppau G.m.b.H.," a limited liability company with its headquarters in Ludwigshafen, which will acquire from the Badische Anilin and Soda Works the latter's ammonia works in Merseburg and in Oppau, as well as the gypsum works at Neckarzimmern and Niedersachswerfen. At the present time the ammonia works at Oppau are working to their full capacity, with an output of 100,000 tons of nitrogen. During the war the German Government decided to erect the Leuna plant near Merseburg, with an initial output of 120,000 tons of nitrogen, and this establishment is to be enlarged, so that its total output will amount to 200,000 tons of nitrogen. In less than a year's time the total output controlled by the new concern will aggregate 300,000 tons of nitrogen, an amount considerably in excess of the total production in Germany of nitrogen, also including the importation of Chile saltpetre, so that the entire requirements in nitrogen of German agriculture and industry are fully assured.

Insurance Act Dispensing.

A Record of matters concerning Chemists' interests in the National Health Insurance Acts.

December Drug Tariffs.

England and Wales.

THE following are the alterations for December in the Drug Tariff for England and Wales issued by the Ministry of Health :

Lower.—Acetanilidum, 5*d.* oz.; aeetum ipecac., 2*s.* 10*d.* lb.; acid. aeetic, 10*d.* lb.; aeid. earbolic. (detached crystals), 2*s.* 3*d.* lb.; aeid. earbolic. liq., 2*s.* 1*d.* lb.; acid. citric. pulv., 5*s.* 4*d.* lb.; aeid. hydrobrom. dil., 1*s.* 10*d.* lb.; acid. salicylic, 3*s.* 10*d.* lb.; aeid. tannic., 10*s.* 6*d.* lb.; acid. tartaric., 3*s.* 4*d.* lb.; adeps lanæ, 2*s.* 4*d.* lb.; alum. purif., 1*s.* 5*d.* lb.; ammon. benz. (artificial), 10*d.* oz.; ammon. brom., 2*s.* 10*d.* lb.; amylum (maize), 7½*d.* lb.; argent. nit., 4*s.* 3*d.* oz.; argent. nit. indur., 4*s.* 5*d.* oz.; argent. nucleinas, 4*s.* 3*d.* oz.; bals. Peruv., 2*s.* 10*d.* oz.; barbitonum, 2*s.* 2*d.* oz.; butyl-chloral hyd., 4*s.* oz.; caffeina, 4*s.* 3*d.* oz.; caffein. cit., 3*s.* 2*d.* oz.; calc. lact., 7*s.* 8*d.* lb.; camphora (flowers), 11*s.* 4*d.* lb.; chloral hydras, 11*d.* oz.; eocain. hydrochlor., 4*s.* 9*d.* dr.; codeina, 5*s.* dr.; codein. phosph., 4*s.* 6*d.* dr.; conf. sennæ, 3*s.* lb.; copaiba, B.P., 6*s.* lb.; creosot. carb., 2*s.* 10*d.* oz.; emp. belladon., 1.1*d.* per 16 sq. in.; emp. calefae., .8*d.* per 16 sq. in.; emp. cantharidin., 2.9*d.* per 16 sq. in.; emul. olei morrhuæ, B.P.C., 1*s.* 11*d.* lb.; ext. easc. sagr. sicc., 10½*d.* oz.; ext. ergotæ, 15*s.* 6*d.* oz.; ext. ergot. liq., 24*s.* lb.; ext. filic. liq., 2*s.* 4*d.* oz.; ext. viburn. liq., 12*s.* 4*d.* lb.; ferri et pot. tart., 8*s.* 6*d.* lb.; glycer. thymol. co., B.P.C., 1*s.* 7*d.* lb.; hexamina, 1*s.* 7*d.* oz.; inf. rhei ex conc., 5*s.* 8*d.* lb.; inf. valerian. ex conc., 3*s.* 2*d.* lb; lin. sap. meth., 2*s.* 6*d.* lb.; lin. terebinthinæ, 2*s.* 10*d.* lb.; lin. tereb. aeet., 4*s.* 3*d.* lb.; liq. am. aeet. conc., 2*s.* 2*d.* lb.; liq. cresol. sap., 2*s.* 2*d.* lb.; liq. formaldehyd., 3*s.* 6*d.* lb.; lithii carb., 1*s.* 3*d.* oz.; lithii cit., 1*s.* 4*d.* oz.; menthol, 3*s.* oz.; methyl salicylas, 6*s.* 2*d.* lb.; methylsulphonal, 3*s.* 10*d.* oz.; morph. acet., 3*s.* 8*d.* dr.; morph. hydrochl., 21*s.* oz.; naphthol, 1*s.* oz.; ol. anisi, 5½*d.* oz.; ol. cadini, 3*s.* 4*d.* lb.; ol. eajuput., 6½*d.* oz.; ol. caryoph., 20*s.* lb.; ol. eucalypt., 4*s.* 9*d.* lb.; ol. lini, 9*s.* 6*d.* gal.; ol. morrhuæ (Norwegian, opt.), 17*s.* 3*d.* gal.; ol. tereb. rectif., 2*s.* 8*d.* lb.; pepsin, 4*s.* oz.; phenaeetin, 1*s.* 8*d.* oz.; phenazon, 1*s.* 7*d.* oz.; phenolphthalein, 1*s.* 4*d.* oz.; podoph. res., 5*s.* 6*d.* oz.; pot. brom., 2*s.* 6*d.* lb.; pot. carb., 3*s.* 2*d.* lb.; pot. chloras, 2*s.* lb.; pot. permang., 5*s.* lb.; pot. sulph., 3*s.* 4*d.* lb.; pot. tart. acid., 2*s.* 9*d.* lb.; pulv. lobeliæ co., B.P.C., 6*s.* 4*d.* lb.; pulv. rhei co., 6*s.* 2*d.* lb.; quin. hydrochl., 6*s.* 2*d.* oz.; quin. hydrochl. acid., 6*s.* 8*d.* oz.; resorcinum, 1*s.* 10*d.* oz.; sacc. alb. pulv. subtil., 11*d.* lb.; sacc. laet., 2*s.* 6*d.* lb.; salol, 8*d.* oz.; santonin., 42*s.* oz.; scammon. res., 13*s.* 4*d.* lb.; sodii benz. (artificial), 5½*d.* oz.; sodii brom., 3*s.* lb.; sodii salicylas (cryst.), 5*s.* lb.; spt. chlorof., 7*s.* 8*d.* lb.; sulphonal, 3*s.* 10*d.* oz.; sulphur præcip., 1*s.* 8*d.* lb.; syrupus, 1*s.* 3*d.* lb.; syr. aurantii, 3*s.* 6*d.* lb.; syr. calc. lactophosph., 3*s.* 5*d.* lb.; syr. cascaræ aromat., 4*s.* 7*d.* lb.; syr. chloral, 3*s.* 9*d.* lb.; syr. codeinæ phosph., 4*s.* 8*d.* lb.; syr. ferri iod., 3*s.* 6*d.* lb.; syr. ferro phosph., 2*s.* lb.; syr. ferri phosph. co., B.P.C., 1*s.* 10*d.* lb.; syr. ferri phosph. c. quin. et strych., 3*s.* 2*d.* lb.; syr. glycerophosph. co., B.P.C., 3*s.* 7*d.* lb.; syr. hypophosph. co., B.P.C., 2*s.* 8*d.* lb.; syr. limonis, 2*s.* 8*d.* lb.; syr. pruni virg., 2*s.* lb.; syr. rhei, 2*s.* 6*d.* lb.; syr. seillæ, 1*s.* 7*d.* lb.; syr. sennæ, 2*s.* 4*d.* lb.; syr. tolut., 1*s.* 8*d.* lb.; syr. zingib., 1*s.* 10*d.* lb.; tab. santonin., gr. i., 14.8*d.* per doz.; tab. santonin. co., B.P.C., 15.2*d.* per doz.; thymol, 5*s.* 3*d.* oz.; tr. lobel. æth., 11*s.* lb.; tr. valerian. ammon., 6*s.* 6*d.* lb.; tragacanth. pulv., 37*s.* lb. Bandages: grey, open wove, 2 in., 2.3*d.*; 2½ in., 2.8*d.*; 3 in., 3.4*d.*; 4 in., 4.5*d.*; white, 2 in., 3.0*d.*; 2½ in., 3.3*d.*; 3 in., 3.9*d.* Suspensory bandages: unmedicated, 24.0*d.*; boric, 26.8*d.*; carbolic, 27.0*d.*; cyanide, 27.0*d.*; sal-alembroth, 26.8*d.*; sublimate, 26.8*d.*; iodoform, 37.0*d.*; picric acid, 34.0*d.* each. Lints: unmedicated, 1 oz., 4.3*d.*; 2 oz., 8.0*d.*; 4 oz., 15.8*d.*; 8 oz., 18.0*d.*; 1 lb., 56.0*d.*; boric, 1 oz., 2.9*d.*; 2 oz., 5.7*d.*; 4 oz., 10.5*d.*; 8 oz., 19.5*d.*; 1 lb., 35.0*d.*

Higher.—Emp. saponis, 6.8*d.* per sq. ft.; emul. ol. morrh. c. hypoph., B.P.C., 3*s.* 9*d.* lb.; ext. nucis vom. sicc., 1*s.* 4*d.* oz.; liq. calcis, 1*s.* 3*d.* gal.; liq. epispasticus, 2*s.* 2*d.* oz.; liq. sodæ chlorinat., 10*d.* lb.; potassa sulphurata, 3*s.* 10*d.* lb.; ung. hyd. co., 7*s.* 2*d.* lb. Bandages: domette, 2½ in., 13.0*d.*; 3 in., 15.8*d.*; flannel, 2½ in., 30.0*d.*; 3 in., 35.0*d.*; plaster of Paris, 2 in., 18.8*d.*; 3 in., 26.0*d.*

Scotland.

THE following are the alterations in the prices of drugs and appliances for December :

Acetanilid., 7*d.* oz.; acid. benzoic., 7*d.* oz.; acid. earbolic., 2½*d.* oz.; acid. carbol. liq., 2½*d.* oz.; acid. gallic., 1*s.* 4½*d.* oz.; acid. salicylic., 4½*d.* oz.; acid. tannic., 1*s.* 3*d.* oz.; ammon. benz., 1*s.* 2*d.* oz.; ammon. brom., 3½*d.* oz.; argent. nit., 10½*d.* dr.; argent. nit. indur., 11*d.* dr.; bals. Peru., 4*s.* oz.; barbitonum, 3*s.* 0½*d.* oz.; betacain. hydroch., 9*s.* 10*d.* dr.; butyl-chlor. hyd., 5*s.* 7½*d.* oz; caffein., 5*s.* 11½*d.* oz.; caff. cit., 4*s.* 5½*d.* oz.; calcii lact., 10½*d.* oz.; camphora, 1*s.* 0½*d.* oz.; chloral. formamid., 3*s.* 9*d.* oz.; chloral. hydras., 1*s.* 3½*d.* oz.; cocain hydrochlor., 6*s.* 8*d.* dr.; codeina, 7*s.* dr.; codein. phosph., 6*s.* 4*d.* dr.; conf. sennæ, 3½*d.* oz.; creosot. carb., 4*s.* oz.; emul. olei morrh. c. hypo. (B.P.C.), 4*d.* oz.; ergotin, 23*s.* 1½*d.* oz.; ext. cascaræ sag. sic., 1*s.* 3*d.* oz.; ext. ergot., 3*s.* 1½*d.* dr.; ext. ergot. liq., 2*s.* 10*d.* oz.; ext. filic. liq., 3*s.* 3½*d.* oz.; ext. malti c. ol. morrh. (B.P.C.), 1*s.* 11*d.* lb.; ext. nucis vom. sic., 1*s.* 10½*d.* oz.; ext. viburn. liq., 1*s.* 5½*d.* oz.; ferrum tart., 9½*d.* oz.; hexamin., 2*s.* 3*d.* oz.; inf. ergotæ, 2*d.* oz.; inf. rhei, 1*d.* oz.; inf. valer., ½*d.* oz; lin. sapon. meth., 2½*d.* oz.; lin. tereb. acet., 4½*d.* oz.; liq. calcis, 2½*d.* Imp. pint; liq. cresoli sapon., 3*s.* 7½*d.* Imp. pint; liq. epispast., 3*s.* 0½*d.* oz.; liq. formaldehyd., 3½*d.* oz.; liq. sodæ chlorin., 1*d.* oz.; lithii carb., 1*s.* 9*d.* oz.; lithii cit., 1*s.* 10½*d.* oz.; menthol., 4*s.* 2½*d.* oz.; methylsulphonal, 5*s.* 4½*d.* oz.; morph. acet., 5*s.* 2*d.* dr.; morph. hyd., 5*s.* 2*d.* dr.; ol. anisi., 8*d.* oz.; ol. cadinum, 3½*d.* oz.; ol. cajuput., 9½*d.* oz.; ol. caryoph., 2*s.* 4*d.* oz.; ol. eucalypt., 5*d.* oz.; ol. lini, 1*d.* oz.; ol. morrhuæ, 2*s.* 10½*d.* Imp. pint; pepsin, 5*s.* 7½*d.* oz.; phenacetin., 2*s.* 4*d.* oz.; phenazon, 2*s.* 3*d.* oz.; phenolphthalein, 1*s.* 10½*d.* oz.; podoph. resin., 7*s.* 8½*d.* oz.; potassa sulphurata, 4½*d.* oz.; potass. brom., 3*d.* oz.; potass. carb., 3½*d.* oz.; potass. permang., 5½*d.* oz.; potass. tart. acid., 3*d.* oz.; pulv. lobeliæ co. (B.P.C.), 7*d.* oz.; pulv. rhei co., 8½*d.* oz.; quinin. hyd., 8*s.* 8*d.* oz.; quinin. hyd. acid., 9*s.* 4*d.* oz.; resorcin., 2*s.* 7*d.* oz.; salol, 11½*d.* oz.; santonin., 8*s.* 5*d.* dr.; scammon. res. pulv., 1*s.* 9*d.* oz.; sod. benz., 8*d.* oz.; sod. brom., 3½*d.* oz.; sod. salicyl., 5½*d.* oz.; sulphonal, 5*s.* 4½*d.* oz.; syr. aurant., 5*d.* oz.; syr. calcii lact., 5*d.* oz.; syr. chloral., 5*d.* oz.; syr. codein. phosph., 6½*d.* oz.; syr. ferri iod., 5*d.* oz.; syr. ferri phos. co. (B.P.C.), 2½*d.* oz.; syr. rhei, 3½*d.* oz.; syr. tolu., 2½*d.* oz.; syr. zingib., 2½*d.* oz.; thymol, 7*s.* 4½*d.* oz.; tinct. lobel. æth., 11*d.* oz.; tinct. valer. amm., 6½*d.* oz.; trag. pulv., 4*s.* 4*d.* oz. Appliances.—Bandages: Grey, open wove, 4 yds. long, 2½ in., 4*d.* each; 4 in., 6*d.* each; white, open wove, 4 yds. long, 2 in., 4*d.* each; 2½ in., 4½*d.* each; 3 in., 5½*d.* each; flannel, 6 yds. long, 2½ in., 3*s.* 4d. each; 3 in., 3*s.* 11*d.* each; plaster of Paris, 6 yds. long, 2 in., 2*s.* 1*d.* each; 3 in., 2*s.* 11*d.* each. Gauzes: 6 yds., unmedicated, per roll, 2*s.* 8*d.*; boric, 3*s.*; carbolic, 3*s.*; cyanide, 3*s.*; sal alembroth, 3*s.*; sublimate, 3*s.*; iodoform, 5 per cent., 3*s.* 9½*d.*; picric acid, 2*s.* 8*d.* Lints: Unmedicated, 1 oz., 6*d.*; 2 oz., 11*d.*; 4 oz., 1*s.* 9*d.*; 8 oz., 3*s.* 4*d.*; 1 lb., 6*s.* 3*d.* Boric: 1 oz., 4*d.*; 2 oz., 7*d.*; 4 oz., 1*s.* 2*d.*; 8 oz., 2*s.* 2*d.*; 1 lb., 3*s.* 11*d.*

Pharmaceutical Committees.

THE PHARMACEUTICAL SOCIETY has sent out a circular to the secretaries of Pharmaceutical Committees regarding the proposal of the Ministry of Health to extend the term of office of the Committees, suggesting that the Committees should consider the question of extending the term until June 30, 1921, and also whether at the next election the term of office should be three years.

Economy in Prescribing.

THE SCOTTISH BOARD OF HEALTH has issued a memorandum on the prescribing of drugs by Insurance service practitioners designed to stimulate Panel Committees and other statuory bodies concerned to exercise, not only in the interest of economy, but in the interest of the health of insured persons, a more stringent check on excessive prescribing. Reference is specially made to the use of sweetening and flavouring agents as tending to foster the drug habit. Medical opinion, it is pointed out, is directly opposed to the lavish use of drugs, and the memorandum quotes the statement made early this year by Sir T. Clifford Allbutt, K.C.B., President of the British Medical Association, who urged as an important reason why the profession's claim for increased remuneration should be granted, the necessity for educating the population out of the habit of taking drugs.

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Trade Report.

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling and the like. Qualities of chemicals, drugs, oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C. 4, Dec. 30.

THE Mincing Lane produce markets were closed from Friday, and business was not resumed until Wednesday morning, so that there are very few changes in values to report. Sugar has been reduced by the Royal Commission by 8*s.* per cwt., shellac underwent a further decline prior to and since the holidays, and castor oil is lower. Crude antimony, saltcake, and Epsom salts are weaker. Industrial and mineralised spirit has been reduced by the makers owing to economy in working and distribution, and methylated ethers will follow. Star anise oil and white pepper are firmer. Our New York cable announces further reductions in balsam tolu and Peru, also hydrastis, mandrake, saccharin, vanillin, etc.

Firmer		Lower	
Anise oil, star	Pepper	Albumen (c.i.f.)	Spirit (industrial and mineralised)
Formaldehyde	Sodium caustic	Castor oil	Sugar
Linseed oil		Shellac	

Easier	
Acetic acid	Saltcake
Antimony	Wood oil (Ch.)
Epsom salts	

Cablegram.

NEW YORK, December 29.—Business is quiet, with the following products offering at lower rates: Sweet oil of birch, $5.40 per lb., Podophyllum (mandrake) root, 17c.; hydrastis (golden seal), $5.20; buckthorn bark, 12c.; balsam tolu, 55c.; balsam Peru, $1.60; short buchu, $2.65; saccharin, $2.00; and vanillin, 65c.

London Markets.

AGAR-AGAR.—The exports from Japan during September amounted to 54,128 kin, valued at 67,237 yen. During the nine months ended September 30 they were as follows:

	1918	1919	1920
Kin	208,344	190,977	340 333
Yen	1,288,469	1,875,263	5,193,474

ALOES.—The exports from the Union of South Africa during September amounted to 73,429 lb. (1,230*l.*), against 44,603 lb. in September 1919. The exports for the nine months ended September 30 amounted to 662,258 lb. (13,602*l.*), against 702,433 lb. (7,338*l.*) for the corresponding period of 1919.

ANISE OIL (STAR) has a firmer tendency, with spot sales of "Red Ship" brand at 2*s.* 9*d.* to 2*s.* 9½*d.* per lb., and to arrive 2*s.* 9*d.* c.i.f. has been paid.

ANTIMONY.—As recently suggested in our columns, the market has shown further weakness, while crude is now obtainable at about 23*l.* c.i.f. per ton, although warehouse lots are held for 28*l.* per ton. Foreign regulus is also cheaper, with c.i.f. offers reported at about 34*l.* to 32*l.*, so that the current official price of ordinary English at 45*l.* is fictitiously high. Prices seem destined to undergo additional revisions in order to induce buyers to come forward. English white-oxide of antimony is still quoted at 60*l.* per ton, but French material is offering much more cheaply at around 55*l.* c.i.f.

BUCHU.—The exports from the Union of South Africa during September 1920 amounted to 6,696 lb. (4,170*l.*), against nil in September 1919. During the nine months ended September 30 the exports were 117,126 lb. (54,035*l.*), against 125,040 lb. (29,327*l.*) for the corresponding period of 1919.

CAMPHOR (REFINED).—Japanese is dull, with sellers of slabs at 5*s.*, and Chinese at 4*s.* 9*d.* per lb. on the spot.

The exports from Japan during September amounted to 47,960 kin, valued at 178,140 yen. During the nine months ended September 30 they were as follows:

To	1918 Kin	1919 Kin	1920 Kin
British India ...	321,193	41,175	358,203
Great Britain ...	349,806	106,715	126,299
France	56,465	145,663	25,942
United States ...	496,829	1,176,028	247,391
Australia	89,575	2,019	21,133
Other Countries ...	180,105	53,675	138,118
Kin	1,463,973	1,525,275	917,086
Yen	3,083,555	5,070,614	4,661,856

CASTOR OIL is lower, English pharmaceutical quality offering at 67*l.* per ton, first pressing at 62*l.*, and second pressing at 57*l.* per ton, barrels included, ex mills Hull.

EGG PRODUCTS remain flat. Chinese liquid hen-yolk is offered at from 55*s.* to 60*s.* per cwt. for old season's as to quality, 80*s.* for new season's prime, and for December-February shipment 80*s.* c.i.f. is quoted. Dried yolk is 6*d.* per lb. on the spot, sprayed whole egg 1*s.* 3*d.*, and native dried whole 7½*d.* per lb. spot. Prime Chinese hen *albumen* is 3*s.* 10½*d.* per lb. on the spot, and December-February shipment is 3*s.* 4½*d.* c.i.f.

ETHERS (METHYLATED).—Following the decline in industrial spirit from January 1, a corresponding reduction in methylated ethers will take place, but the new prices had not been fixed at time of closing for press.

INSECT FLOWERS.—This year's harvest of Dalmatian insect flowers is estimated at 120 truckloads, of which over half is stated to have been purchased by an American firm. At present about twenty truckloads from the last harvest are still awaiting disposal. The prices realised average 60 crowns per kilo. for closed, and 50 crowns for open flowers.

LINSEED OIL.—Demand is almost at a standstill, and the market is rather weak, while seed has fallen again, due to the indifference of crushers and the further considerable fall in the cost of shipping. The depression at Hull has been more marked than in this market, despite the very restricted rate of crushings. At the close there has been a slight rally, London quoting 40*l.* per ton naked and Hull 39*l.* 10*s.*

MENTHOL is steady, with sellers of Kobayashi-Suzuki at 26*s.* per lb. on the spot.

MERCURY has remained in the same idle state, but the tone is steady, while sellers of Italian are holding for 14*l.* 5*s.* per bottle, although the leading importers quote Spanish at 5*s.* less. There is evidently no hurry in having important consignments arranged from Spain at present. The position in America is reported dull and depressed, the surplus lots held in New York, although not large, being more than sufficient to satisfy current small requirements.

MINT OIL is quiet, with sellers of Kobayashi-Suzuki at 5*s.* per lb. on the spot.

OPIUM.—The London market has been closed for the holidays and spot prices are as given last week. The prices quoted on c.i.f. terms are from 15*s.* 6*d.* to 15*s.* 9*d.* per lb., and not 11*s.* 6*d.* to 11*s.* 9*d.* as given in our previous issue.

SMYRNA, December 11.—The sales on the Smyrna market amount to 40 cases of soft and druggists' manufacturing qualities at prices more or less equivalent to those of last week—viz., 19*s.* to 20*s.* per lb. for soft Yerli, and 14*s.* to 17*s.* 6*d.* for the manufacturing descriptions. Owing, however, to the financial crisis and to larger arrivals at Smyrna this week we have strong reasons to hope that with business in hand sellers may be disposed to sell at 5*d.* to 6*d.* per lb. lower than that quoted above. The arrivals to date are 806 cases, against 1,210 at same date last year, and our stock in first- and second-hands is now 822 cases. The exchange is to-day piastres 500 per pound sterling for cheque and $069 for one Turkish paper pound.

PEPPER.—Prior to the holidays pepper was steadier at from 3⅞*d.* to 4*d.* per lb. for fair black Singapore on the spot, with sales of January-March and February-April shipment at 3⅞*d.* to 4*d.* c.i.f. and buyers. Lampong is 4*d.*, Tellicherry 4½*d.*, and Alleppy 4*d.* per lb. spot. *White*

pepper closed steadier previous to the holidays, the spot value of fair Muntok being 8*d.*; sales of January-March and February-April have been made at 7½*d.* to 7⅝*d.* c.i.f. Singapore is 7½*d.* spot, and the value of January-March 6¾*d.* per lb. c.i.f. Prices since the opening of the markets have been firmer, closing on Wednesday at 4*d.* for black Singapore, with sales of white Muntok at 8*d.* spot, January-March and February-April at 7½*d.* c.i.f.

The import into France and Algeria of pepper of foreign origin, or coming from abroad, under any Customs *régime*, is prohibited in accordance with a decree of November 8, published in the "Journal Officiel" of November 13. This prohibition, however, does not apply to shipments which can be proved to have been sent direct to France and Algeria prior to the publication of the present decree, or to shipments declared for bond at the same date.

SHELLAC.—Prior to the holidays a further decline took place, usual standard TN Orange quality having been sold down to 375*s.* to 370*s.* per cwt., a decline of 20*s.* Fine lemon is 600*s.*; fine second Orange is 550*s.*, pure button 550*s.*, and AC cakey Garnet is 450*s.* Futures are also lower, the sales including March delivery at from 215*s.* to 207*s.* 6*d.* per cwt. The London market was not re-opened until Wednesday, when TN sold at 360*s.* and March delivery at 190*s.* to 220*s.*

SPIRIT (METHYLATED).—Makers announce from January 1, 1921, reductions in the prices of industrial and mineralised spirits of 1*s.* 5*d.* to 1*s* 8*d.* per gallon and 1*s.* 8*d.* to 1*s.* 11*d.* respectively as follows:

In One Delivery	Industrial Methylated Spirit		Mineralised Methylated Spirit	
	61 o.p.	64 o.p.	61 o.p.	64 o.p.
100 gals. and upwards	6*s.* 8*d.*	6*s.* 9*d.*	7*s.* 4*d.*	7*s.* 5*d.*
30 ,, to 100 gals.	6*s.* 10*d.*	6*s.* 11*d.*	7*s.* 6*d.*	7*s.* 7*d.*
10 ,, to 30 ,,	6*s.* 11*d.*	7*s.* 0*d.*	7*s.* 7*d.*	7*s.* 8*d.*

The above prices are subject to 2½ per cent. discount for cash in one month. Any quantity taken in tins will be charged at the 10-gallon price. Methylated resin finish is 2*d.* per gallon extra, and methylated shellac finish is 1*s.* per gallon extra over the prices quoted for industrial methylated spirit. The makers state that the reduction is due principally to economies effected in working and distribution, the cost of raw material being only slightly less than it was before.

SUGAR.—The Royal Commission on the Sugar Supply on December 28 reduced the prices of home refined sugar by 8*s.* per cwt., quoting castor, icing, and pulverised, 78*s.*; cubes, 76*s.*; granulated, crystals, crushed, and chips, dry white sugar, white pieces (moist), 72*s.* The maximum price for "free" sugars has also been reduced to 72*s.* per cwt.

TURPENTINE.—The home demand from consumers has been practically nil over the holidays, and there is no sign of new dealers' interest, due to the gloomy feeling reported from the United States. Producers argue that current rates mean a severe loss to them, but, unless trade revives, there is not much hope of prices being raised against the consumer. Spot (London) and to April delivery closes at 100*s.* per cwt.

WAX, VEGETABLE.—The exports from Japan during September amounted to 8,474 kin, valued at 2,624 yen. During the nine months ended September 30 they were as follows:

	1918	1919	1920
Kin	92,951	75,213	136,622
Yen	529,866	631,341	2,998,699

WOOD OIL is easier, Hankow for shipment offering at 62*s.* c.i.f., the spot value being 80*s.* and Hong Kong 75*s.*

Pharmaceutical Chemicals.

WITH practically no business being transacted there is no change either in the tone of the market or values to record this week. An improvement is looked for in the next few weeks.

ACETANILIDE remains quiet and not firm at about 2*s.* 9*d.* per lb.

AMMONIUM BROMIDE is in little demand, with prices fairly steady at 1*s.* 3*d.* per lb.; good supplies are available.

ASPIRIN is steadier on a quiet market at about 3*s.* 9*d.* per lb.

BARBITONE is a quiet and fairly steady market at 17*s.* 6*d.* to 20*s.* per lb.

BENZALDEHYDE (0.03) remains steady and quiet at 5*s.* 6*d.* per lb.

BENZOIC ACID is unchanged at 2*s.* 6*d.* per lb.

BENZONAPHTHOL is about the same as last week at 9*s.* 6*d.* to 10*s.* per lb.

CALCIUM LACTATE is a quiet market at 3*s.* 6*d.* per lb.

CITRIC ACID is in good supply, with but only small buyers about, quotations varying on an unsteady market at from 2*s.* 10*d.* to 3*s.* 2*d.* per lb.

CREAM OF TARTAR seems fairly steady on a quiet market at from 205*s.* to 210*s.* per cwt. for B.P. material.

CREOSOTE, B.P., is unchanged and quiet at 6*s.* per lb.

CREOSOTE CARBONATE remains quoted at 20*s.* per lb. on a quiet market.

GUAIACOL CARBONATE is unchanged and continues quiet at about 19*s.* per lb.

HEXAMINE has steadied up, and there is a little business being done in the region of 6*s.* 6*d.* per lb.

MERCURIALS.—The following are fuller particulars of the reduction in mercurial salts announced last week, the prices being for not less than 1-cwt. lots: Corrosive sublimate 5*s.* 2*d.*, calomel 5*s.* 7*d.*, white precipitate 6*s.*, red precipitate 6*s.* 5*d.*, levig. 5*s.* 11*d.*, yellow oxide 5*s.* 9*d.*, white sulphate 4*s.* 3*d.*, and sulphuret with sulphur 4*s.* 9*d.* per lb. net.

METHYL SALICYLATE is quiet, with values remaining stationary at 3*s.* 3*d.* per lb.

METHYL SULPHONAL is dull, with values about the same at 26*s.* 6*d.* to 27*s.* per lb.

PHENACETIN is in little demand, with prices unsteady at about 11*s.* to 11*s.* 6*d.* per lb.

PHENAZONE is quiet, with values remaining at last week's figures of 9*s.* 9*d.* per lb.

PIPERAZINE is inclined to weaken, and some offers are being made at 5*s.* 9*d.* per oz., but the general quotations stand at 6*s.* per lb.

POTASSIUM BROMIDE is quiet and unchanged at from 1*s.* 1*d.* per lb. upwards.

POTASSIUM IODIDE.—The exports from Japan during September amounted to 1,783 kin, valued at 13,950 yen. During the nine months ended September 30 they were as follows:

	1918	1919	1920
Kin	136,565	75,948	15,624
Yen	838,502	490,430	132,046

Of *crude iodine*, 281 kin, valued at 3,060 yen, were exported during September, and the exports for the nine months ended September 30 were:

	1918	1919	1920
Kin	51,036	16,281	12,044
Yen	320,686	109,601	83,666

PYRAMIDON is unchanged and quiet at 26*s.* per lb.

QUININE.—Arrivals amounting to 231,000 oz. of quinine and salts has taken place from Java. Dealers' price is about 3*s.* 10*d.* for sulphate.

SALOL remains in small demand, with prices steady at 4*s.* 3*d.* to 4*s.* 6*d.* per lb.

SILVER NITRATE.—The price of crystals on December 29 was based on a metal price of 43*d.* per oz. as follows: In quantities of 25 oz., 2*s.* 8½*d.* per oz.; 50 oz., 2*s.* 7¾*d.*; 100 oz., 2*s.* 7¼*d.*; 250 oz., 2*s.* 6⅞*d.*; 500 oz., 2*s.* 6¼*d.*

SODIUM BENZOATE remains steady at 2*s.* 6*d.* per lb.

SODIUM BROMIDE is unchanged and dull at 1*s.* 2*d.* per lb.

SODIUM SALICYLATE seems to have touched bottom at 2*s.* 6*d.* per lb.

SULPHONAL is a quiet market, but values appear steady at about 25*s.* per lb.

TANNIC ACID.—Leviss remains quoted at 6*s.* per lb. on a dull market.

THYMOL is in poor demand, with values unchanged at about 40*s.* per lb.

VANILLIN is weak; current quotations show offers at from 58*s.* to 59*s.* per lb.

Heavy Chemicals.

BUSINESS during the holiday week has been at its lowest point. There is no change to report in the tone of the market or the prevailing prices, which remain unsteady and easy. It is not thought probable that values will decline much further, and there is a fairly confident feeling that the New Year should bring with it renewed activity on the market and that prices will firm up to some little extent.

ACETIC ACID is offering freely, and prices continue quite easy at about 75*l*. for glacial, 62*l*. for 80 per cent. technical, and 70*l*. for 80 per cent. pure.

ACETONE is only moving very slowly, British Government specification material (ex works, Disposal Board) offering at about 100*l*. per ton upwards.

ALUM in lump in small parcels is offering at about 19*l*. per ton in casks, but there is not much demand.

ARSENIC is exceedingly slow and likely to be shaded further, although prices are no worse than last week at 69*l*. to 70*l*. per ton for white Cornish delivered London or Liverpool.

BARYTES is steady and quiet, prices remaining at their old figures of 6*l*. 10*s*. up to about 15*l*. per ton according to quality.

BLEACHING POWDER is fairly steady, but the demand is only small, 35 to 37 per cent. material in hardwood casks offering at about 24*l*. per ton.

BORAX is very quiet, there being but little inquiry for either crystals or powder, which are being offered by makers at about 41*l*. per ton.

BORIC ACID remains very steady, with some inquiry; current prices are 74*s*. for crystals and 76*s*. per cwt. for powder.

COPPER SULPHATE remains exceedingly quiet at 40*l*. in casks and 39*l*. per ton in bags.

COPPERAS remains unchanged, green crystals offering in small lots at about 6*l*. with small demand.

EPSOM SALTS is inclined to weaken on a dull market; some offers at about 8*l*. per ton for commercial quality in bags. Exports from Germany are prohibited except under licence.

FORMALDEHYDE is still in poor demand, but the market seems steadier at the current quotations round about 140*l*. to 150*l*. per ton.

GLAUBER'S SALT is quiet, with values remaining at about 7*l*. 10*s*. per ton for commercial quality.

LEAD ACETATE remains quiet after last week's fall on a quiet market, white crystals offering at 65*l*. and brown broken at 64*l*. per ton.

LEAD PRODUCTS.—Trading on home or export account drags on, there being no urgent needs to be seen to, while consumers have yet good quantities to take deliveries of against old contracts. The last downward price-revision for white-lead and oxides took place at mid-December, placing quotations thus: Red-lead and litharge for home and export, 46*l*. 5*s*. to 47*l*. 15*s*., according to quantity; white-lead, dry, and white-lead in oil, for export, at 53*l*. and 60*l*. 5*s*. per ton respectively, f.o.b.

LIME ACETATE is unchanged and quiet at 27*l*. per ton for grey 80 per cent.

LITHOPONE remains fairly steady, with only occasional business; green seal is quoted at about 42*l*. per ton.

OXALIC ACID is being freely offered, but there are not many buyers at 1*s*. 5*d*. to 1*s*. 6*d*. per lb.

POTASH CAUSTIC is dull, and values are weak at about 75*l*. per ton for 88 to 92 per cent. material.

POTASSIUM BICHROMATE remains steady and quiet at 1*s*. 3*d*. per lb.

POTASSIUM CHLORATE is quiet and unchanged at about 7*d*. per lb. for powder and crystals.

POTASSIUM PERMANGANATE is being freely offered, with not much business on a quiet market, at about 3*s*. per lb.

POTASSIUM PRUSSIATE is weak and quiet at 1*s*. 6*d*. for yellow and 3*s*. per lb. for red.

SALTCAKE is inclined to weaken on a dull market; current quotations are 14*l*. in bulk and 15*l*. in bags.

SODA ASH, 58 per cent. light alkali, ex works for home consumption, is about 8*l*. 10*s*.; export is about 12*l*. per ton; market is quiet and prices easy.

SODA CRYSTALS are not in much demand, makers' offering at 7*l*. per ton carriage paid for home trade; some lots on the open market are obtainable at about 8*l*. per ton.

SODA SULPHIDE ex works is offered at about 35*l*. per ton in casks, but there is no great demand; foreign material is quoted at about 37*l*. c.i.f.

SODIUM BICARBONATE is offering freely on a quiet market at 9*l*. (home) and 11*l*. per ton for refined material (export).

SODIUM BICHROMATE is quiet, with values about the same at 10½*d*. per lb.

SODIUM CAUSTIC is steadier, with the market continuing quiet, makers offering for home trade at 25*l*. 10*s*. f.o.r.; small parcels are offering for export at about 27*l*. per ton f.o.b.

SODIUM CYANIDE remains steady and quiet at 1*s*. per lb. for 100 per cent. basis.

SODIUM HYPOSULPHITE is steady, there being a continued inquiry for pea crystals packed in sound kegs; quotations are round about 30*l*. per ton, with commercial material offering at about 27*l*. per ton.

ZINC PRODUCTS.—The price of raw zinc has dropped well into pre-war levels, in spite of high costs, and allied products have weakened all round, with little doing, but the market this week has had a sharp rally. Zinc oxide is offering very cheaply on German account, and the disposal of zinc dust is difficult for the present, even at cut prices.

Italian Drug and Chemical Markets.

Genoa, December 22.

THE Italian drug and chemical markets not only reflected during December the effects of the industrial crisis in Italy, but also the effects of the reductions in price that took place abroad, and very few contracts were made. Such reductions were felt all the more owing to a further increase in wages arranged in the different branches of the Italian chemical industry, and to a further increase in the foreign exchange, whereby the English pound rose from a value of lire 95.06 to a value of lire 100 and above; the value of the U.S. dollar rose from lire 27.10 to lire 30.00, and the value of the French franc from lire 1.65 to lire 1.75. The consumers placed at a greater distance from the centres of arrival and distribution of the foreign and national products benefited, however, very little from the new prices, as the overland transportation expenses have increased by 300 per cent. over pre-war rates through new dispositions of the Italian State railways. A Royal decree issued during December authorised the Customs to consent directly to the exportation of all those medicinal products in small glass bottles for hypodermic use, even if they contained alkaloids. Negotiations were initiated between the Italian and German Governments for establishing new and more favourable importation and exportation tariffs, and if the desired concessions are obtained the exports of chemicals, drugs, and pharmaceutical products from Germany to Italy will receive a still further development than the present, contributing also to reduce further the prices, owing especially to the low German exchange and other special facilitations. With the idea of regenerating the former commercial freedom, the General Commissioner for Provisions issued special dispositions. These arranged that all firms who consumed during January-February 1920 more than a ton per month of sugar for industrial purposes will no longer be obliged to have recourse for their requirements to the Italian State, but can procure their needs directly from the Consortium for Industrial Sugar Supplies in Turin, or directly from abroad on conditions already arranged. The quantity of sugar for which the firms can obtain delivery will be 25 per cent. above what they could obtain formerly from the Italian Government, and they can arrange for six months' supplies. During the last financial year (1919-1920) the Italian Government had under its monopoly coffee representing lire 335,305,016, purchased at lire 6,840 per ton; 30,330 tons of the above coffee was sold for lire 332,905,975, or lire 10,970 per ton, leaving a stock of 18,674 tons, which was sold at lire 8,160 per ton. The monopoly of coffee surrogates exercised by the Italian Government has given so far very poor results, owing especially to the policy adopted, which consists in giving artificial support to the different works producing substitutes, compelling the consumers to purchase good and bad products. From the statement of a senator, Italy cultivates at present over 800 hectares of ground exclusively with flowers, a portion of which is employed for producing essential oils,

while the rest is destined for sale on the different markets and in the different flower-shops throughout the peninsula. Over lire 30,000,000 of flowers are exported annually, and from October to April trains leaving the city of Ventimiglia, at the French frontier, with the flowers collected at Bordighera, Ospedaletti, San Remo, Taggia, and Riva Ligure. The exportation would be larger if the exporters had not to combat very high importation tariffs, especially in Germany.

The prices of some drugs, chemicals, and pharmaceutical products were revised further during December, the following being current:

Pharmaceutical Products.

	Lire per 100 kilos.		Lire per 100 kilos.
Acetic acid, glac. ...	1,100	Glucose, 45° Bé. ...	505
Acetone, pure ...	1,350	Glycerin, refined ...	825
,, commercial ...	1,050	,, d.d. s.g. 1·260 ...	980
Alcohol, denatured, 90° ...	850	Honey, white ...	950
,, ,, 95° ...	1,950	Hydrogen peroxide (10 vol.)	210
Ammon. carb., lump ...	590	Magnes. carb., lump...	1,000
Ammonium chlor., lump (98-100) ...	790	Magnesium chloride ...	110
Ammonium chlor., lump (95-96) ...	700	,, sulph. ...	95
Antimony sulphide, lump ...	595	Naphthalene flakes ...	300
,, ,, powder	620	Oxalic acid, xtals. ...	1,550
Boric acid, crystals ...	850	Pot. chlorate, powder ...	500
,, ,, large flakes ...	950	,, ,, santonin xtals.	400
Camphor tablets ...	9,000	Potash permang. ...	3,500
Carbolic acid, cryst., 39° to 40° C. ...	1,200	Quinine citrate ...	76,500
Carbolic acid, liq., 95 p. c. ...	450	,, sulphate ...	62,500
Castor oil, medicinal ...	850	Soda pruss., yellow ...	1,350
Ceresin, pure white ...	1,150	,, salicylate, xtals. ...	4,000
Cod-liver oil, medicinal ...	1,400	,, sulph., anhyd., fused ...	140
		Sulphur, refined ...	120
		Vaseline, best white ...	1,050
		Wax, veg., Jap. ...	1,050
		,, carnauba ...	2,250

Drugs, etc.

	Lire per 100 kilos.		Lire per 100 kilos.
Almonds, sweet Bari...	1,250	Mustard, Bari ...	360
,, bitter Sardinian ...	700	,, Sicily ...	360
Anise, Bari ...	750	Nutmeg ...	1,250
,, Span. ...	750	Pepper, Java... ...	450
Armeline, Aleppo ...	500	,, Singapore ...	450
,, Chin. Jap....	500	,, black Tellicherry ...	600
Cassia, Java ...	900	,, Aleppo ...	550
,, Martinique ...	990	,, white Muntok ...	1,200
Chamomiles ...	1,200	Saffron, Aquila ...	460
Cinnamon, Ceylon, firsts ...	1,650	,, Spanish ...	480
Cloves, Madagascar ...	1,400	Senna, from Eritrea...	850
,, Zanzibar ...	1,500	,, leaves, Tinn....	900
Elder-tree twigs ...	1,050	Shellac ...	4,900
Glue, strong ...	1,000	Tamarinds, Barb. ...	360
Gum, acacia ...	500	,, Cal. ...	300
Linden-tree flowers ...	900	,, Madras ...	300
Liquorice blocks, pure ...	1,200	Turpentine, Spanish...	950
Manna, Geraci ...	1,900	,, American ...	950
Mannite, cones ...	7,000	Vanilla, Tahiti ...	9,800
Milk-sugar, crystals ...	1,950		

Heavy Chemicals.

	Lire per 100 kilos.		Lire per 100 kilos.
Ammonia sulphate ...	100	Soda carbonate (Amer., 98 to 100 p.c.) ...	150
Bleaching powder ...	180	Soda carbonate (Eng., 98 to 99 p.c.) ...	150
Borax, crystals ...	530	Soda carbonate (French, 98 to 100) ...	150
Caustic potash (70 to 75 p.c.)	1,550	Soda caustic (76 to 78 p.c.) ...	310
Citric acid ...	3,350	,, caustic (70 to 72 p.c.) ...	310
Cream of tartar ...	1,800	,, crystals ...	145
Formic acid (80 to 85 p.c.) ...	780	,, hyposulphite ...	220
Hydrochloric acid, 20 to 21° Bé. ...	70	,, silicate, 140° Tw. ...	188
Lead carbonate ...	525	,, sulphate xtals....	95
Nitric acid, 36° Bé. ...	450	Sodium sulphide (60 to 65 p.c.) ...	500
Potash bichromate ...	1,800	Sulphuric acid, 66° Bé. ...	70
Pot. carbonate (85 p.c.)	1,100	,, ,, 50° Bé. ...	65
,, pruss., yellow ...	1,900	Tartaric acid ...	2,425
Soda bicarbonate ...	130		
,, bichromate ...	1,350		
,, bisulphite, crystals, 32° Bé. ...	105		

Japanese Chemical Market.

Tokyo, November 7.

THERE are no signs yet of any improvement in the chemical market, and the depression is likely to continue for some time yet. The stock of chemicals has been reduced to an appreciable extent as the result of the efforts made by manufacturers and merchants, and business on a small scale is taking place.

ACETANILIDE is dull at 1.35 yen per lb.

ACETIC ACID.—Glacial has fallen to 52 sen per lb

ASPIRIN is inactive at 3.30 yen per lb.

BENZOIC ACID is weak at 3.10 yen per lb.

BORIC ACID.—Crystal in 100-kilo. barrels is quoted at 95 yen, and powder at 85 yen.

CAFFEINE is firm and the price has risen by 2 yen, and is now quoted at 24 yen per lb.

ERGOT is at a standstill at 10.80 yen per lb.

GUAIACOL CARBONATE has declined in price on account of the continued appearance of weak sellers.

MERCURY has declined to 220 yen per 100 kin, owing to the plentiful stock; and bichloride of mercury and calomel are also weak. The former is quoted at 1.75 yen per lb., and the latter at 1.85 yen.

MILK-SUGAR has declined to 46 sen per lb. owing to abundant supply.

POTASSIUM BICHROMATE.—The demand having fallen off, the price has declined.

POTASSIUM IODIDE has risen to 6.35 yen per lb. on account of the higher cost of production.

PYRAMIDON is quoted at 23.50 yen

QUININE SULPHATE has risen to 1.70 yen per 25 grams, owing to short supply.

SANDALWOOD OIL has weakened, owing to the appearance of large stocks. Price is at 30.50 yen per lb.

SANTONIN remains firm at 235 yen per lb.

SODIUM BICARBONATE.—Crescent brand is quoted at 9.50 yen, and American make at 6.50 yen; there is little demand.

SODIUM CAUSTIC.—A considerable quantity was re-exported, owing to the slump in the domestic market. A large proportion of the stock is held by banks as security, and they are watching for an opportunity to sell as soon as an improvement occurs.

SODIUM NITRATE has fallen to 120 yen per ton, against 130 yen in October.

SODIUM PRUSSIATE.—There was a brisk export to U.S.A. at about 40 yen per 100 lb., but when this ceased the price fell to 36 yen per 100 lb

SODIUM SALICYLATE is quoted at 1.50 yen.

TARTARIC ACID has declined to 12 sen per lb., and a further fall is expected.

UVA URSI has risen to 60 sen per lb.

Italian Olive Oil Crop.

Genoa, December 22.

THE collection of the olives, although greatly obstructed by bad weather during December, terminated in some Puglian and Sicilian centres, and was initiated in some other parts of Italy, where the fruits mature later. The prices paid for olives at Barletta and Bari were lire 1,800 to lire 2,400 per ton, and in this instance their quality was found to be excellent. In the provinces of Lecco and Bari there was great dissatisfaction with the producers owing to the authorities having refused to grant importation permits if the requirements of the local consumers were not first satisfied. No permission was, however, necessary for making exportations of 30 kilos. for family consumption, and a very large trade would have been done in this direction if the Italian State railways had not rendered it impossible through their high freights and the non-guarantee of rapid delivery. Although as a whole the production of olive oil will be small this year, from assertions made in the Italian Chamber of Deputies it appears that it will be sufficient for the demands of the country, and may even permit of certain exports. In the centres of production an "overprice" above that fixed by the Italian Government was demanded, which fluctuated from lire 50 to lire 100. This "overprice," in order to avoid trouble, was left out on the invoices, and was paid in anticipation. The Government price for olive oil was lire 13,000 per ton throughout the whole month. This price, which treats olive oils of different kinds as if they were only of one quality, meets with great disapproval from producers and consumers.

Vanilla Production (1920-21).

THE production of vanilla in Madagascar and Dependencies, including the Comoro Islands, and in the Islands of Réunion and Mauritius for the season 1920-21, has been officially estimated as follows:

	lb.
Madagascar and Dependencies—	
Comoro Islands ...	553,355
East Coast ...	498,184
Nossi-Be ...	99,207
Total ...	1,150,746
Mauritius ...	1,102
Réunion ...	176,368

Although official statistics have not been received concerning the Seychelles Islands, it is understood that the production in that archipelago will not be greater than, and probably not as great as, that of last season, which amounted to only 6,614 lb. of cured beans.

Russian Santonin.

The "Grosshandels-Zeitung," in an article dealing with Russian santonin statistics, states that the production of santonin is controlled by the partners of the Santonin Co. in Russia, which in turn is under the supervision of the heirs of J. J. Ivanow, in Tashkend. Prior to the war the entire production was sent to Germany for purification, and Germany returned to Russia annually about 15 poods of purified santonin to meet the Russian requirements. Consequently Russia held the monopoly of production and Germany that of distribution. Since the outbreak of war the santonin was exported to England. The following amounts of santonin were exported to Germany:

1910	... ...	963 poods, value	23,256	roubles
1912	... ...	141 ,, ,,	1,800	,,
1913	... ...	303 ,, ,,	117,100	,,
1914	... ...	200 ,, ,,	93,000	,,

Since 1914 there has been no export to Germany. The exports to Great Britain amounted to:

1915...	...	300 poods, valued at	701,000 roubles
1916...	...	200 ,, ,, ,,	382,000 ,,

The French Dyestuff Industry.

The French Association of Producers and Consumers for the development of the dyestuff industry in France has published a report, in which it is stated that from July to December 1919 the Association did everything in its power to provide French consumers with the necessary supplies of dyestuffs, either by purchase in Germany or by monetary grants to French manufacturers, in order to assist the latter to develop this industry. During that period 1,093 tons of dyes were purchased in Germany directly by the Association, and in view of the urgent necessity of obtaining supplies as quickly as possible the Association was unable to enter into protracted negotiations as to prices. However, it succeeded in persuading the Germans to quote in French currency instead of in Swiss francs, a very valuable concession in view of the decline in the French currency compared with the Swiss. The manufacturing districts of Tourcoing and Roubaix were particularly considered, and received a total of 323,000 kilos., while the other industrial centres received the following amounts allotted: Alsace, 42,000 kilos.; Paris, 51,000 kilos.; Lyons, 31,000 kilos.; Rouen, 29,000 kilos.; the Vosges, 37,000 kilos.; and the remainder, 71,000 kilos. together. It was only in October 1919 that the first delivery of German dyes under the Treaty of Versailles was made, and of the 5,200 tons delivered to the Allies, France received 1,000 tons, which were distributed to the French consumers during the present year. The efforts of the Association to develop the French dyestuff industry have so far proved successful, and numerous new plants have been erected, while existing establishments have been equipped with up-to-date plant; in addition, the manufacture of new products has been introduced, particularly of special preparations, with a view to making the country independent of foreign supplies. During the past year the output of the French dyestuff works has steadily increased, as is apparent from the following figures: June, 174,724; July, 231,540; August, 270,681; September, 326,819; October, 441,140; November, 409,679; December, 612,700 kilos. These figures afford an interesting indication of the requirements in dyes of the French industries.

The Bandoeng Quinine Factory.

(*Continued from last week's C. & D., p. 98.*)

COMBINATION.

BEGINNING with January 1, 1920, operations were undertaken jointly on behalf of the three associated factories, which also took over jointly all deliveries. The purchase of bark, the working of the factories, and the sale of all products manufactured were undertaken on behalf of the joint account, under the superintendence of a Commission of five persons. The profit realised was divided among the three factories on the basis of three-eighths each to the Dutch Quinine Factory and to the Bandoeng factory, and two-eighths to the Amsterdam Quinine Factory. For the use of their plant the Bandoeng factory receives an annual allowance of 100,000 florins, while the Dutch as well as the Amsterdam factories each receive 20,000fl. The expenses for upkeep, new buildings, insurance, renewals, and taxes are charged to the joint account. All participants receive an annual interest of 6 per cent. on the amount invested in the joint undertaking.

EXTENSION.

The factories of the three companies are to be used to the utmost of their capacity; hence it is proposed not to confine operations solely to the manufacture of quinine salts, but also to undertake the production of other chemicals, and to trade in the latter.

PROPERTY.

The capital of the company amounts to only 700,000 florins, a sum which is inadequate to meet all the obligations arising out of the new contract. In the Bandoeng factory and buildings alone the sum of 1,400,000fl. has been invested, while the Bandoeng factory is expected to participate in the combine to the extent of two to two and a-half million florins. Up to the present it had been unnecessary to call for more capital, as sufficient funds were always available to meet new expenses. The board has placed on one side reserves totalling 3,390,000fl., particularly to meet the charges for war taxation and as an extra reserve, so that it will be in a position to continue working without appealing for fresh capital, and in addition will be able to meet all obligations and keep the stock of bark and of quinine at the old figures. All the old stocks in hand, dating back to 1913, and even earlier, have been liquidated.

FIGURES.

Although by a coincidence the amount of stock in hand was exactly the same at the end of 1919 as at the end of the foregoing year—129,000 kilos.—the value was very different. In 1918 it figured at 695,128.99fl., but in 1919 it represented 1,616,376.91fl., a profit of 921,247.09fl., realised on the stock alone. The total amount of cinchona bark dealt with by the factory aggregated 445,000 kilos. of quinine sulphate, which has been booked to the profit and loss account at 11,950,543.3fl. The cost of manufacture increased during the year under report, as will be seen from the following comparisons (in florins):

	1918	1919
Cost of chemicals used	796,757.75	1,143,374.31
Fuel and lighting	154,598.90	339,179.64
Manufacturing requisites ...	138,296.17	229,760.24
Cost of producing 1 kg. of quinine sulphate	3.84	3.96

The cost of erecting new buildings and enlarging the existing plant, entailed an expenditure of 468,519.18fl., while the new machinery acquired cost 475,183.55fl. The factory now possesses twenty-five dwelling-houses for housing its European *personnel*, representing a value of 444,462.79fl.; ten new houses have been added during the year. No writing-off on buildings and machinery has been placed to account for this year.

BALANCE.

The profit and loss account closes with a balance of 4,000,000fl. Taxation figures at 1,979,615.30fl., of which 1,436,340fl. represents war tax.

DIVISION OF PROFITS.

According to the statutes of the company, if possible, interest at the rate of 6 per cent. is to be paid on the capital. Of the excess amount which may be available for distribution at least 9, and not more than 11, per cent. is to be carried to the reserve fund; 10 per cent. to the founders; 7½ per cent. to the director; 7½ per cent. to the joint commissaries; at least 64, and at the most 66, per cent. to the shareholders. The amount paid out as dividend to the latter consequently aggregated 2,992,689fl., and the sum allotted to the founders amounted to 395,800fl. The board proposes that the sum of 2,100,000fl. (from the dividend to be paid out) should be employed as payment on 2,000 preferential shares, each of 1,000fl., and of the dividend to be paid to the founders, to set aside 300,000fl. for the creation of 400 preferential shares, each of 1,000fl., which are to be allotted to the shareholders and founders respectively; however, should the latter prefer to receive payment in cash in lieu of these new preferential shares, the latter will be taken over at par by the board. It is proposed that these new preferential shares shall bear a fixed rate of interest, and consequently be less influenced by market fluctuations than is the case with the ordinary shares. This is to be assured by the creation of a strong reserve fund. Compared with the importance of the company's undertaking the ordinary share capital is very small, therefore the prospects of profit are great.

MEXICAN VANILLA.—In Mexico over 50,000 people are employed in the cultivation of vanilla—one of the most important of the country's minor industries. During 1919, 197,403 kilos. of vanilla, valued at 2,333,264 pesos, were exported.

Correspondence

The Dentists Bill.

SIR,—We now have the text of the Government Bill for amending the Dentists Act, and, as was expected, it is aimed directly and specifically at the practice of dentistry by chemists, so that if it passes through Parliament no chemist in future will be allowed to take out teeth, except in very remote districts on urgent occasions, under a penalty of 100*l*. Prohibition of practice has already had two precedents, viz. the Midwives Act, 1902, and the Venereal Disease Act, 1917, neither of which is quite applicable in the present instance; but prohibition of the conjoint practice of two professions is a new departure in legislation, and it is a great pity that the promoters have thought fit to imperil a good Dental Bill by inserting such an innovation. The effect of this Bill is to divide chemists into two classes. Those who have in the past depended upon pharmacy and dentistry for their livelihood will be obliged to forsake one or the other, and unless they are able to prove that their dental practice is "substantial" (whatever that is interpreted to mean) they will be immediately debarred from dentistry as soon as the Act comes into operation. If, on the other hand, they have a "substantial practice" they will be put on the Register and given five years in which to decide whether to give up dentistry or pharmacy. There is, however, a concession beyond the Departmental Committee's Report in that the proposed Dental Board may consider any special case. The Chemists' Dental Society has already put its position very clearly before the authorities, and this new concession has undoubtedly been inserted in consequence. Before, however, a definite acceptance of, or opposition to, this condition is decided upon everyone interested should seriously consider whether he is prepared and able to adapt his business accordingly; and if not, will he submit to the Dental Board's decision of his case? There is not the slightest doubt that hardship will be entailed on a considerable number of chemists, who, although their dental practice has not been "substantial," have nevertheless in numbers of cases been able to pay their rent, and perhaps more, by doing extractions only. No consideration will be given to these, and the official view is that by paying more attention to pharmacy proper, or other side-lines, they will be able to make good their loss, which of course depends upon circumstances over which the chemist has not entire control. On the other hand, those over the "substantial" line of demarcation will be compelled to sacrifice their pharmaceutical qualification and dispose of their pharmacy within five years. Numbers of chemists have already voluntarily given up pharmacy for dentistry, but only in those cases where they have been quite certain that it would be profitable to do so; and those who are on the borderline or are absolutely dependent upon the pharmacy to assist them in making a living will be bound to suffer a loss. An acknowledgment of the injustice to chemists is the fact that five years is given with the object of softening the blow, and this is thought to be sufficient in the majority of cases. The reason for opposition is definite and clear, as we have: (1) Prohibition of the right to extract teeth without the slightest compensation or acknowledgment of vested interests, and (2) compulsory deprivation of the pharmaceutical qualification after five years, in return for being put on a Register with the other unqualified. A thousand Registers will not make a man a good chemist or dentist, and those who go on the new Register will still remain unqualified men. If a man has a qualification or registrable right to practice in two professions he should certainly be allowed to continue both of them if he thinks it necessary to make a livelihood; and compulsorily depriving a man of his pharmaceutical qualification simply because he is legally and lawfully also carrying on a dental practice is absolutely inexcusable.

Yours faithfully,
F. W. ROBERTS.

Tropical Clinics Prescriptions.

SIR,—The irregularities in the issue of prescriptions under the Tropical Diseases Clinic reported to the North British Branch (*C. & D.*, II., 1920, p. 1574) are similar to those we have to contend with in the South. The favourite practice here is to write on the script, "Repeat three times," thus supplying the patient with four bottles of medicine, each sufficient for a week, and ensuring that the patient only goes to the clinic once a month. This practice is, on the face of it, a distinct breach of the ruling that repeats are discontinued. Some patients are still under the impression that they are compelled to go to a particular shop with the pink forms, and it is difficult to assure them that it is not so. The reason for instructing a patient to take the duplicate to his panel doctor is not so obvious, but it is possibly to provide the doctor with a copy from which he can order the same medicine on a panel script. In one respect the Scottish pharmacists are better off than we are, and that is with regard to the pricing of scripts. I see that they send their forms to the usual pricing and checking bureau, but in the South ours are sent to the Pensions Bureau, and any checking will have to be done by ourselves.

Yours faithfully,
LACIPORT. (19/9.)

Dispensing Chemists' Responsibilities.

SIR,—The recent conviction in the dispensing case at Leeds is not at all satisfactory to pharmacists, and in my view something should be done by the profession generally to put these matters on a better footing. For twenty-five years it has been my lot to make frequent use of nebulisers, washes, and drops, etc., for nose, throat, and ears, so that I know something of the usual remedies prescribed, and have, of course, dispensed many such for others. For the nose and ears the remedies are often far from perfect from the pharmaceutical point. One of the oldest remedies, and often suggested by doctors, is "sweet oil and laudanum." The oil and tincture do not mix well, and can scarcely be called a scientific combination. The result in the hands of an untutored person must be that the remedy cannot be applied in its correct proportions. In my experience, and I write with knowledge of ear and nose specialists, and so on, the remedies used are not many in number, and I believe they are all defective from the view of the dispenser. Here is one: "S.V.R. and Ac. Boracic." I have had this ordered, ʒss. to ℥ss. of spirit. Of course the acid will not dissolve, except with heat. This should be inserted "warm," therefore the label comes off, as the only way to ensure a clear solution is to place the vial in a cup of hot water; one uses, of course, one of the "droppers" sold for the purpose, and which is warmed at the same time. It is a point to remember that no remedies at all "strong" should be used for nose or ear, and that all should be used at or near body-temperature. A common "nose-wash" is sod. bicarb., sod. chlor., sod. bibor., glycerin. et aqua. If these salts were all equally soluble there would be no trouble. As a rule the bottle is brought back to be refilled, and shows a fine crop of crystals at the bottom of container. It should be explained to patients that the wash should form a clear solution before they proceed to dilute according to the directions, "ʒss. to ℥iv. aq. calid." One man told me he used up the crystals by pouring in some hot water, in which case he got a different solution from that first supplied. Unless the above and similar washes are used well diluted the result may be a very sore nose. It is clear that this nose-wash could be bettered. As a matter of fact I do not believe it to be of any particular use. Polypi appear to feed upon it. A much better solution is "Hydrogen Peroxide Borated," ʒj., to ʒij. or ʒiij. aq. calid. Drops of various formulas—mostly imperfect—are known for application to the ears, and it would be easy, and certainly good policy, if the medical fraternity would decide on some really "fool-proof" formulas. Thus none of these remedies should require a "Shake" label.

Yours, etc.,
VETERAN. (21/12.)

"Be Prosperous in the New Year."

SIR,—May I, through you, thank Mr. Mills for his courtesy in answering my question? He deprecates detailed accountancy, and so I am loath to examine the figures. However, he cogently pleads for the adoption of a code word in pricing, but he seems to miss the real reason a code word can never be used: that reason is the loose way pricing prescriptions is done. The job is not a good paying line unless you get plenty, and guess-work is the basis of pricing. The difference between Mr. Mills and the impugned pricing is one of percentage. The method is the same, and it contains a fundamental error which is bound to militate against its adoption. No accountant in any costing department would admit 33⅓ or 50 per cent. profit on wages and overhead charges. It is wrong in principle. The addition of this percentage should be to materials only, since other costs are already provided for, and brings the correct price to 2*s*. 3*d*. in the first quotation and 2*s*. 2*d*. in the second, in round figures. Might I suggest it is more important to get the right method of charging, since no prescription can have a rigid price at all shops?—not even our neo-trade unionists dream of accomplishing this standardisation. Moreover, a code-word pricing would never be adhered to unless the margin was sufficient to warrant the second chemist in his charge.

Yours truly,

EDITOR, London Chemists' Price List.

16 Priory Gardens, Highgate, N. 6.

Subscribers' Symposium.

For interchange of opinion among "C. & D." readers, and brief notes on business and practical topics, especially new ideas.

Appreciations.

I have been a subscriber to the *C. & D.* for twenty-three years; although the price has been increased, no chemist in business can afford to be without it.—*A. B.* (20/12).

I have subscribed to the *C. & D.* for nearly twenty-five years now, and I assure you I should not like to try to "forge ahead" without it now, as I fear I should not make much progress.—*A. W. T.* (13/12).

I have great pleasure in renewing my subscription to the *C. & D.* We shall surely appreciate the value of our "invaluable" journal more now we have to pay a bit extra for it. No chemist's business can be run satisfactorily without the *C. & D.*—*W. P.* (32/1).

Calamina Præparata.

This substance appears to be a stumbling-block just now, especially with regard to fineness of the powder and height or depth of tint. As it is generally acknowledged that the factitious variety holds the field, would it not be advisable to agree as to the amount and nature of tinctorial substance which should be added to it?—*Abel Scholar.*

The New Union.

Mr. Chas. S. Challinor, Middlewich, writes: There is only one way to prevent the new Union being controlled by the multiple-shop companies, and that is to introduce the principle of the proxy vote. The bulk of the members' are quite unable to attend meetings in London. Any member who cannot attend a meeting should be allowed to nominate as his proxy a friend who is attending. By no other means can the wishes of the majority be ascertained and adopted.

Clashing Fixtures.

Mr. Thos. Marns, Ealing, writes: I regret to notice that the British Pharmaceutical Conference at Scarborough and the Chemists' Exhibition in London are both down for the same week in June. There must be a good number of men like myself who are most anxious to attend both events, and it does seem a great pity that they should be allowed to clash in this way. There is almost six months to go; surely it is not too late to avoid this clashing.

Legal Queries.

Aerated (20/12).—The practice of aerated-water manufacturers is to use for commercial soda water 10 grains of sodium bicarbonate per pint. If required for medicinal use the soda water formerly official in the British Pharmacopœia (30 grains to the pint) may be used, but would probably be returned by the customer as being undrinkable.

Quercus (24/12).—CHEMISTS AND THE MEDICAL CURRICULUM.—The pharmaceutical Preliminary examination is accepted by the English Royal Colleges if it is also one which is recognised by the General Medical Council for registration as a medical student. Applications from pharmaceutical chemists for exemption from some of the subjects (botany and chemistry) of the First Professional examination are considered by the Colleges if evidence of a curriculum is also given. Each case is considered on its merits. The general question of medical qualifications and how to obtain them is dealt with fully in the Educational Number (August 21, 1920).

Income (15/12) asks whether in making out the return of his taxable income he is entitled to deduct (1) his subscription paid as a member of the Pharmaceutical Society; (2) his subscription to the *C. & D.* [We are afraid "Income" cannot count on having either of these deductions allowed should he claim them. A payment made to an association which is of the nature of a trade union or friendly society is sometimes allowed as an insurance premium, but this only applies to so much of the subscription to the association as is allocated to the purpose of giving death or superannuation benefits to the subscriber. As to (2), we regret that the authorities have not yet got to the point of view that it is a reasonable trading expense.]

Cobwebs (23/12).—OBTAINING A WINE-LICENCE.—An applicant for a new licence has to give the following notices: (1) An advertisement in a local newspaper of his intention to apply. This is to be inserted on some day not more than four and not less than two weeks before the date of the licensing meeting. (2) Within twenty-eight days before the meeting a notice of the intended application has to be put up between the hours of 10 A.M. and 5 P.M. on two consecutive Sundays on the door of the shop and also on the door of the parish church. (3) At least twenty-one days before the licensing meeting notice of the intention to apply for the licence has to be given in writing, preferably by registered letter, to (*a*) one of the overseers of the parish in which the premises are situate, (*b*) the superintendent of police of the district, and (*c*) the clerk to the licensing justice. If the licence is granted it has afterwards to be confirmed at Quarter Sessions.

R. M. (13/12), whose business consists as to 75 per cent. of patents and proprietaries, about 90*l*. per annum National Health Insurance dispensing, and the remainder the usual retail of drugs and small lots, has a difference of opinion with the income-tax assessor for his district on the question of stocktaking for the purpose of ascertaining the profits of the business for income-tax purposes. The assessor says that as stocks have increased in value double or threefold since 1917, the same stock should now be entered at twice or three times more accordingly. "R. M." asks if this is correct. [The difference in the value of a trader's stock at the beginning and at the end of the tax year has to be brought into the account for the purposes of finding the taxable income; but the assessor is wrong in going back beyond April 6, 1919. Any increase counts as a profit, and any decrease counts as a loss. This applies whether the difference in value is due to the bulk of the stock having increased or diminished, or because the prices of the various items have gone up or down. The question of whether the value of the stock has altered is, of course, one of fact to be settled by a skilled valuer in case of doubt. If "R. M." incurs any expense in connection with stocktaking, he is entitled to deduct this on his return as a trade expense.]

Miscellaneous Inquiries.

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

Carbolic (13/12).—PRICE OF MIXTURE.—The prescription works out as follows on the London Simplified System :

Mag. lactis	℥iss.	4.0*d.*
Sp. amm. arom.	ʒiij.	3.0
Liq. arsen.	♏xxxij.	1.0
Amm. brom.	ʒiij.	2.0
Tr. nuc. vom.	ʒiiss.	2.5
Tr. zingib.	ʒiv.	5.5
Sp. chlorof.	ʒiij.	4.0
Aq. ad	℥viij.	1.0
Container ...		4.0
Dispensing-fee ...		9.0
		36.0*d.*
		=3*s.*

Forus (16/12).—DISPENSING CHARGE FOR MIXTURE.—According to the London Simplified System the charge for the mixture is as follows :

Syr. Easton.	ʒss.	7.0*d.*
Tr. aurant.	ʒss.	30.0
Aq. chlorof. ad	℥ss.	5.0
Mitte ℥viij.		
Container ...		4.0
Dispensing-fee		9.0
		55.0*d.*
		=4*s.* 7*d.*

F. H. R. (10/12).—EXCESSIVE GREASINESS OF THE HAIR is best treated by frequent shampoos and the application of astringent washes such as the following :

Tr. cinchon.	ʒj.	
Liq. potassæ	ʒij.	
Potass. carb.	ʒj.	
Aq. coloniensis	℥j.	
Aq. ad	℥viij.	

Mix and filter. Use when the hair has dried after shampooing.

C. P. (27/12).—DESTROYING MOLES.—Although it is not considered good husbandry to destroy moles ruthlessly on account of their value in aerating the soil and in eating large quantities of insects, yet the most effective way of ridding land of moles is to fumigate the runs with carbon bisulphide. Pledgets of cotton wool soaked with carbon bisulphide are placed in the animals' runs and covered up with soil. The vapour travels along the burrows and destroys any animal or insect life with which it comes in contact. If it is desired to use poison, strychnine may be employed, earthworms being soaked in a solution, but moles prefer live food. Trapping with a horsehair noose is also practised.

G. W. B. (23/11).—CHEMIST-OPTICIANS.—The education required for the examinations of the Spectacle Makers' or British Optical Association's diplomas is the best equipment for an ophthalmic optician. It needs, however, considerable practical work before efficiency is reached in sight-testing and spectacle-fitting. Information regarding the examinations was given in the Educational Number (August 21, 1920).

T. H. L. (15/11).—BROWN BOOT POLISH.—The following is representative of the class of formulas to which you refer :

Carnauba wax	4 parts
Ceresin	40 parts
Black Montan wax	4 parts
Wool fat	2 parts
Turpentine oil	120 parts
Pine oil	40 parts
Burnt umber	3 parts
Lampblack, finest	2 parts

Mix.

H. W. (15/11).—CHEMISTS EMIGRATING.—We dealt rather fully with the prospects of chemists emigrating to Australia in the *C. & D.*, January 11, 1919, p. 50, to which you should refer. Similar conditions obtain in South Africa.

Presto (25/11).—The abnormal prices of chemists' businesses depend upon the high price of the stock and scarcity of houses, which factors will probably continue to exert their influence for a long time. The goodwill payment, if any, should depend upon the turnover and profits.

G. D. M. (26/11).—(1) COAL BRIQUETTES.—The manufacture of coal briquettes can only be carried out economically by machinery which incorporates the binding material (pitch or rosin) with the small coal, heats the mass, and incorporates a sufficiency of water and moulds it into briquettes. Sometimes clay is used in place of pitch, but the coal brick is not so easily burnt.

(2) CHEAP WHITE EMBROCATION :

Oil of turpentine	1 part
Rape oil	2 parts
Solution of ammonia	1 part

(3) WORM POWDERS FOR HORSES :

Antim. pot. tart.	ʒiss.
Ferri sulph. exsicc.	ʒiss.
Pulv. gentianæ	℥ij.
Pulv. anisi	ʒij.

Ft. pulv. xij. One twice daily in the food. When all have been taken, follow by a worm drench.

Alpha (25/11).—We know of no book published on the manufacture of organo-therapeutic preparations.

C. S. H. (24/11).—MANUFACTURE OF SUGAR OF MILK.—The source of sugar of milk is the whey from cheese factories or the skim milk from creameries. The process of manufacture consists in evaporating 50,000 litres of whey to dryness, a residue of 1,250 kilos. being obtained. This is dissolved in water at 65° C. in a copper pan, ½ to 1 kilo. of alum added, the solution filtered through animal charcoal, boiled down to a syrup, and allowed to crystallise on cords or sticks. It is purified by recrystallisation and precipitation by alcohol. The chemical-engineering firms whose advertisements are printed in the *C. & D.* and *The Chemist and Druggist Diary* can supply the plant required.

H. M. T. (20/12).—THEATRICAL COLD CREAM.—A sample of the transparent variety of theatrical cold cream which we examined recently was found to be white vaseline, suitably perfumed.

A. B. (20/12).—(1) CHEMICAL FOOD.—When the quantity of free phosphoric acid in chemical food is reduced too much there is a tendency for a deposit to form, but the syrup is considered more palatable. (2) The British Pharmaceutical Codex is published by the Pharmaceutical Society, but a second-hand copy could probably be obtained by advertising in the Coloured Supplement.

Retrospect of Fifty Years Ago.

Reprinted from "The Chemist and Druggist," Jan. 14, 1871.

The New Year Opens.

As each new year comes round, an opportunity presents itself for all of us to join heart and hand more cordially in the various works which we do in common. Heartily let us express our congratulations as the new year opens, wishing all our friends happy and prosperous months; but let us not stop here. Let the year find us anxious to make the best of every opportunity to help others as well as ourselves. Fraternal greetings from London to Liverpool, and from Liverpool to Baltimore, are cheering and strengthening, and these are worthy of special occasions. But there is a noble work for each to do day by day. He is a poor business man whose time is entirely occupied in getting his own living. Let all try to make the new year happy and prosperous for those around them as well as for themselves, and besides merely wishing it, let us work for that end generously and earnestly, and some day this world will not be such a den of wild beasts as it has appeared of late.

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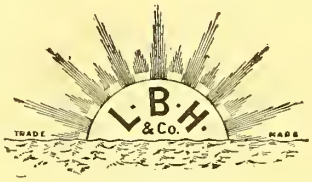

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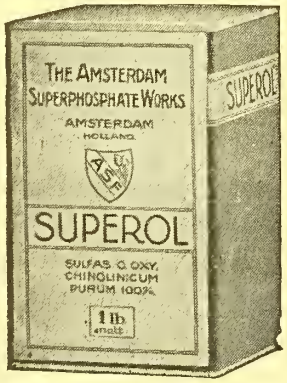

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,, TURMERIC FINGERS	65/-	75/-	9d.
CATTLE CONDIMENT	85/-	90/-	10d.
CHICKEN ,, (Egg Producer)	56/-	60/-	7d
POWDERED GRAINS OF PARADISE	180/-	190/-	1/10
LINSEED double screened ...	36/-	40/-	5⅓d
,, crushed B.P.	36/-	40/-	5⅓d.
,, ,, No. 2	34/-	38/-	5¼d.

STARCHES

PURE MAIZE STARCH CRYSTALS

4/5-lb. papers, 56 lb. cases ... ... 42/- per cwt.

PURE RICE STARCH CRYSTALS

4/5-lb. papers, 56 lb. cases	65/-	per cwt.
1-lb. packets do.	76/-	,,
½-lb. ,, do.	78/-	,,
¼-lb. ,, do.	85/-	,,
2d. boxes, 1½-gross cases (6 gross equals 1-cwt.)	13/6	gross

All prices quoted include delivery free to buyers' addresses in 3-cwt. lots and upwards, either in one article or mixed consignment.

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GLYCEROLE OF NEPENTHE 6/- per oz.
NEPENTHE SUPPOSITORIES in four strengths—equivalent to ⅛ gr. or ¼ gr. Morphia 1/- per dozen; ½ gr. Morphia 1/6 dozen; 1 gr. Morphia 2/- dozen.
Subject to usual Discount and terms.
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(3) Disintegrate rapidly and comminute completely.
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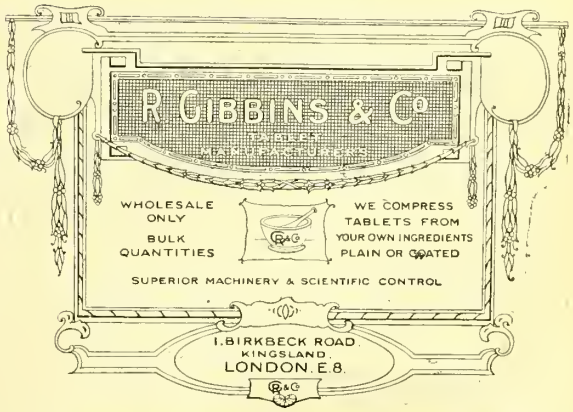

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Card Boxes ...	9/-	18/-	45/-	47/-

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Cascara Tablets, gr. ii, pearl-coated, per 1000, 5/-; in card boxes—25's, 2/-; 50's, 3/9; 100's 6/9 per doz. In bottles, 25's, 3/-; 50's, 5/-; 100's, 8/6 per doz.
Formalin Tablets, contains ½-gr. Paraformaldehyde, per lb. 3/-; in screw-cap bottles, 50's, 8/- per doz.
Bismuthated Magnesia Tablets, per lb. 3/6; in screw-cap bottles, 50's, 8/6 per doz.
Pine Tablets, 2/6 per lb.; 2-oz. cartons, 4/3 doz.
Sulphur Tablets with Cream of Tartar, 2/3 per lb.
Indigestion Tablets (Heart shape) 2/9 lb.; 2-oz. cartons, 5/3 doz.
Boat-Shape Feeding Bottles, each in box, complete with transparent teat and valve, 10/- per doz.
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Aspirin P.B. 7/6 lb.
Acid Tartaric Pulv. or Xtal. P.B. 4/3 ,,
Cream of Tartar 99% P.B. 3/- ,,
Acid Citric P.B. 6/- ,,
Magnes. Carb. Pond. P.B. 1/3 ,,
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Gum Acacia, Powd. Elect. 3/6 lb., Sorts 1/3 and 2/- lb.
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Sod. Brom., Howards' 5/ lb. **Ammon. Brom., Howards'**, 5/- lb.
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Paraff. Liq. P.B. 12/- ,,
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Camomile Flowers 2/- lb.
Senna Pods 10d. ,,
STICK JUICE, 2 oz. STICKS, PURE 4/- ,,
French Chalk Pulv. 3d. & 4d. ,,
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All Varieties in Bulk 3/- per lb.
2-oz. Tins 6/- doz. 1-oz. Tins 3/6 doz.

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Bismuth B.P.	4/-	per lb.
Carbolic B.P.	3/-	,, ,,
Peppermint C.S., J.D.&Co.	3/6	,, ,,

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Violet, Heliotrope, Opoponax, etc. 3/6 per lb.

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10 lb. Tins 4 4 lb. 28 lb. Tins 4/2 lb.
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2/6	,, ,, c. Rectal Nozzle	2/6	22/6
6d.	**Bond's (John) Crystal Palace Marking Ink**	6d.	4/3
1/-	,, ,, ,,	1/-	8/-
	Wm. Browning Co, Ltd. Preparations—		
1/-	Semprolia Cold Cream (Opal Jars)	1/-	8/-
1/6	,, ,, (Large Jars)	1/6	13/-
7d.	,, ,, (Tubes)	7d.	4/9
	Evans, Gadd & Co., Ltd., Preparations—		
2/3	Confellax	2/3	18/-
3/-	,, ...	3/-	24/-
5/-	,, ...	5/-	40/-
	H. & T. Kirby & Co., Ltd., Preparations—		
1/3	Sal Mineralis	1/3	10/-
2/3	,, ,, ...	2/3	18/-
3/-	,, ,, ...	3/-	25/-

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1921

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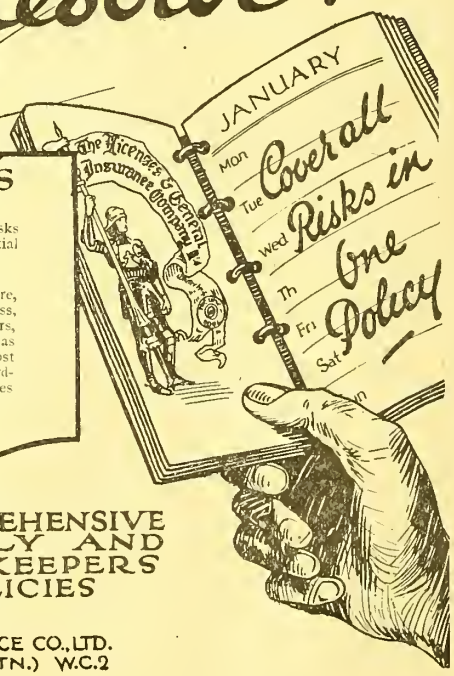

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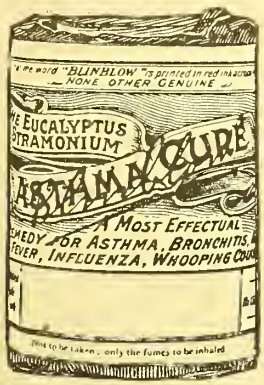

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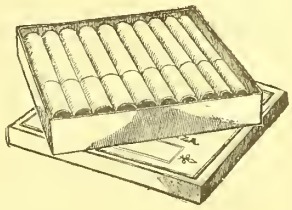

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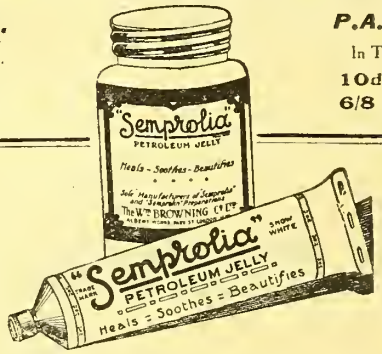

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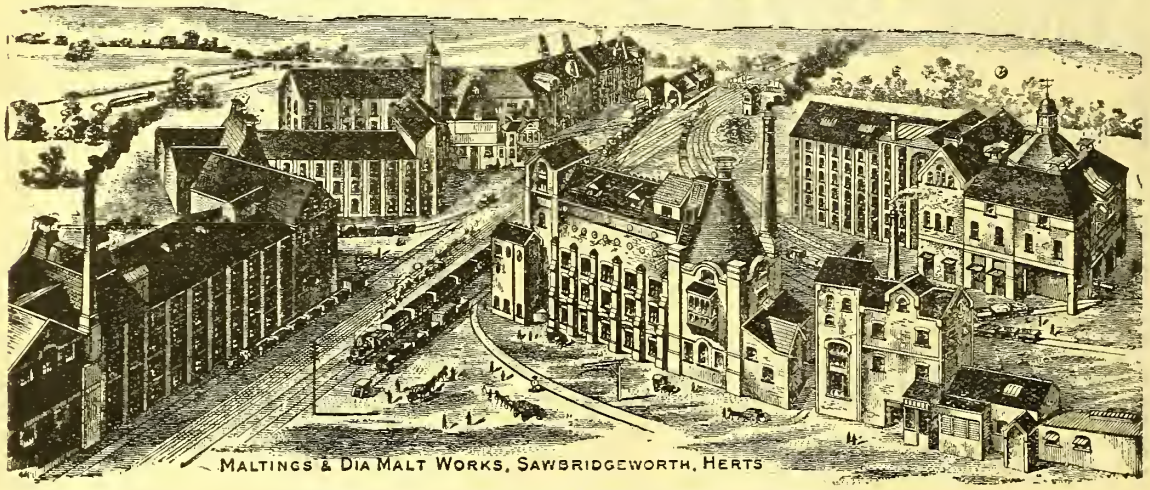

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The BRYTSTELE BATH

For SAFETY RAZORS.

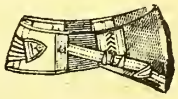
Outfits: Price **3/6** each: **32/-** doz.
Solution only: 4-oz. Bottle, **1/6** each; **14/-** doz.
" " 10-oz. Bottle, **3/-** each; **28/-** doz.
Orders value **£2**, carriage paid, England & Wales.
" " **£5**, " " Scotland & Ireland.

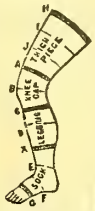
Brytstele Inventions, Limited,
26 Horfield Road, BRISTOL.

J. H. HAYWOOD, LTD. CASTLE GATE, NOTTINGHAM.

INVENTORS OF SEAMLESS ELASTIC HOSIERY.

SURGICAL APPLIANCE MANUFACTURERS.





Specialities:

Abdominal Belts, Trusses, Suspensory Bandages, Braces, Elastic Web Bandages, and Druggists' Sundries.

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HOT WATER BOTTLES.

THE "EMPIRE" BRAND

IF you wish to keep up your reputation for reliable quality, you must continue to stock our "EMPIRE". brand of **Hot Water Bottles.** Do not risk trying an unknown make.

One quality only—the Best. Guaranteed for two years.

Prices as follows :

Sizes : inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
Each	**4/5**	**4/9**	**5/2**	**5/6**	**6/-**	**6/9**	**7/-**	**8/-**

Each Bottle in a strong paper bag, with directions for use.

HOT WATER BOTTLE COVERS. Scarlet or Grey Plush.

Sizes : inches	6×8	6×10	6×12	8×10	8×12	8×14	10×12	10×14
Each	**1/9**	**2/-**	**2/6**	**2/9**	**3/-**	**3/6**	**3/9**	**4/3**

MUFF WARMER. Drab Rubber, 4×6 inches. **Each 2/-**

SEAMLESS ENEMAS

		Per doz. s.	d.
Fig. 987.	The "**B.E.M.**" (best English make) with bone rectal pipe, etc., complete in card box	26	0
	,, in superior card box	29	0
	,, in leatherette case	32	0
	,, extra large and stout, the finest article made	36	0
	Special Line, red unpolished, stout, in card box	30	0
	,, ,, in leatherette case	36	0
988.	The "**Empire,**" black polished, in card box	30	0
	,, ,, in leatherette case	36	0
275.	Warne's patent pulse valve enema, arabesque rubber, in card box	42	0
	,, ,, ,, in leatherette case	48	0

AIR CUSHIONS

Fig. 1194. The "**Empire**" red india rubber Air Cushion—

Diameter	14 in.	15 in.	16 in.	17 in.	18 in.	19 in.	20 in.
Each	8/-	9/-	10/-	11/-	12/-	14/-	16/-
Square shape, ,,	12/-	13/6	15/-	16/6	18/-	19/6	22/-

A discount of 5% for prompt cash is allowed on all amounts of 10/- and upwards. Money returned if goods are not satisfactory. Write for illustrated price list post free for the asking.

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91 & 92 GREAT SAFFRON HILL, LONDON, E.C.1.

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"FASTNET" ANTI-CHILL VEST.

Colds and Chills are Prevalent.

BE PREPARED!

And get a stock of

"Fastnet" Anti-Chill Vests

Made of Golden Fleecy Material.

Size No. 3	... 12″ × 9½″	... 29/-	per dozen
„ 4	... 13″ × 10½″	... 31/-	„
„ 5	... 14¾″ × 12″	... 33/-	„
„ 6	... 16″ × 15″	... 36/-	„
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Similar lines:

"Fastnet" Chest Jackets ... sizes 1 to 8
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Manufactured by the "Fastnet" Surgical Dressing Co., Ltd.

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RIGOLLOT'S MUSTARD LEAVES

FOR PLASTERS.
THE ORIGINAL.
THE **ONLY** GENUINE.

7d., 1/- & 1/7 Packets
5/3, 9/-, 14/3 per Doz.

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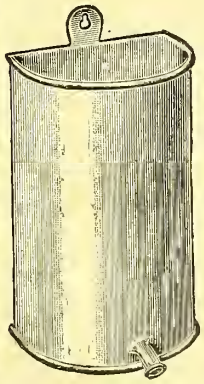
Enamelled Hospital Requisites



China White
Enamelled Steel
DOUCHE CANS
Bent spout which prevents rubber kinking.
2, 3, 4 & 6 pints
With front handle if required.

Male URINALS
(939 B)
Only pattern made.

IMMEDIATE DELIVERIES

Round Bed Pan

Regulation Pattern.

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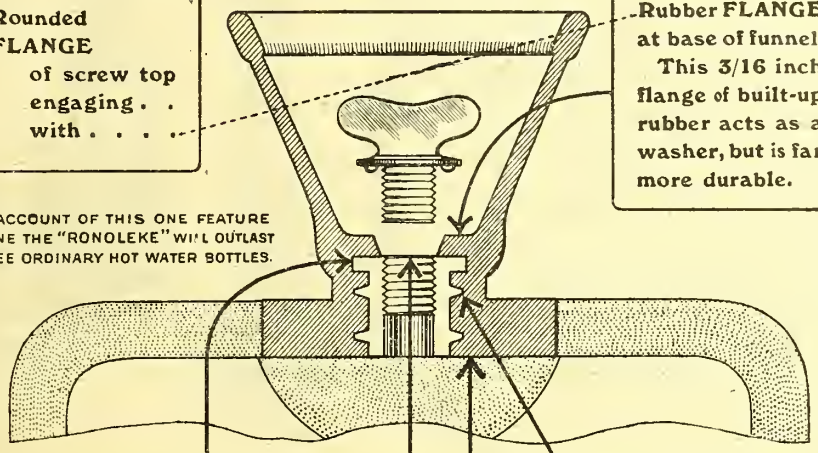
The reasons why It Never Leaks



Rounded FLANGE of screw top engaging . . with . . . .

Rubber FLANGE at base of funnel. This 3/16 inch flange of built-up rubber acts as a washer, but is far more durable.

ON ACCOUNT OF THIS ONE FEATURE ALONE THE "RONOLEKE" WILL OUTLAST THREE ORDINARY HOT WATER BOTTLES.

Wide METAL FLANGE of socket embedded in built-up rubber.

Projecting LUGS of patent socket embedded in built-up rubber, preventing the socket from revolving when tightening up or removing screw top.

Aperture at base of funnel. This makes the funnel a real funnel. There is no water left after filling.

Built-up RUBBER firmly joined to body of bottle, so that not a particle of water can leak through. It holds socket securely in position without wiring.

"Ronoleke" REGD.

To be obtained from all wholesale Druggists' Sundriesmen.

PRICES.

Size	Min. Wholesale Prices to Retailers	Min. Retail Prices to Public
6× 8 in.	5/-	6/5 each
6×10 ,,	5/6	7/1 ,,
7×10 ,,	5/9	7/4 ,,
6×12 ,,	5/10	7/6 ,,
7×11 ,,	6/-	7/9 ,,
8×10 ,,	6/3	8/- ,,
7×12 ,,	6/6	8/4 ,
6×14 ,,	6/6	8/4 ,,
8×12 ,,	7/1	9/2 ,,
9×12 ,,	7/5	9/7 ,,
8×14 ,,	7/8	9/11 ,,
10×12 ,,	7/11	10/2 ,,
10×14 ,,	8/11	11/5 ,,
10×16 ,,	9/9	12/7 ,,
12×14 ,,	9/11	12/8 ,,
12×16 ,,	10/6	13/6 ,,

Prices Protected on P.A.T.A. List.

[3]

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ENSURE PROTECTION
IN THEIR PARTICULAR PROVINCE as they are of the best manufacture, standing all tests, including boiling—are easy for the baby, and possess the characteristics of great clearness. All parts accessible and durable.

SPECIAL DESIGNS FOR SPECIAL HOME AND OVERSEAS MARKETS.
Write at once to your wholesaler and get the share of the business in your district.

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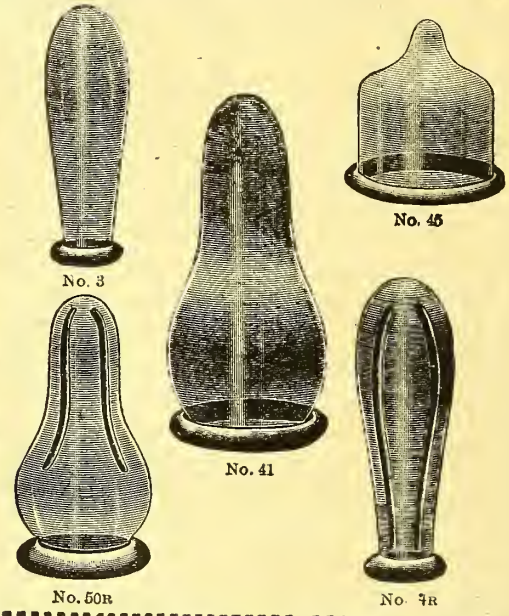

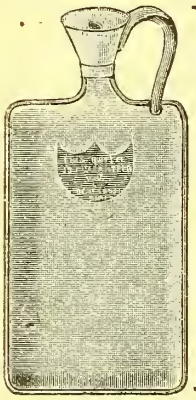

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Hot Water Bottles
8/- lb. 12 × 8 weighs under 13 oz.
Covers for same, assorted sizes, 24/- doz.
BELTS TRUSSES SUSPENSORIES & Surgical Appliances
AT LOWEST CURRENT RATES
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SUPERIOR ENGLISH MANUFACTURE. FAST WOVEN EDGES.
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Invaluable for binding. Displaces rubber and elastic web. More durable and one-third the cost. The Norwich Crepe Bandages, containing wool will provide warmth, and do not absorb grease readily. Self-clinging and self-adjusting. Perfectly cleansed, sterilised, and resiliency entirely restored by washing in hot soft water (with addition of a little soap). The edges will not fray out nor ravel. Made and supplied to the leading wholesale houses, neatly wrapped in labelled packages Commended by the medical and nursing professions. Send for prices and samples to the sole manufacturers—

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9

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SPECIAL OFFER TO CHEMISTS. 13 Boxes "Antapsal" 60/- net
CASH WITH ORDER.

"It's in my nose—you can't see it—I can't feel it—only its wonderful effects."

"CATARONOL" OUTFIT

for Colds, Catarrh, Bronchitis, Stuffed Nostrils, Loss of Hearing, Hay Fever, Adenoids, Headache, Sore Throat, etc. etc.

"ASBRONATOL" OUTFIT

for Chronic Bronchitis and Asthma.

TRADE DISCOUNT 20%

The Appliance is in use in the leading Hospitals. Numerous testimonials have been received from eminent users.

Press Advertising commences shortly, and all Chemists, Departmental Stores, etc., should obtain a stock in readiness.

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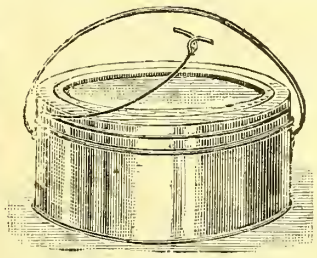

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TIGHT SEAMING & VARNISH BOTTLES A SPECIALITY.

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ALL SIZES AND COLOURS IN STOCK

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Careful Mothers insist on the NESTLÉ FEEDER

The superiority of the Nestlé Feeding Bottle is so obvious that doctors are advising it, nurses are recommending it and mothers insist on having it. Nothing is good enough for their little ones but a bottle which is perfect in hygienic construction; which cannot possibly harbour dirt or disease germs and which ensures that the food is taken without undue effort or excessive air.

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NESTLÉ Feeding Bottle

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CLINICAL THERMOMETERS—
Government Tested and Stamped. Best British Make. Each in metal case.

	2 min.	60 secs.	30 secs.	
Ordinary Round	24/6	26/-	28/-	dozen
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JACONETTE SHEETING—
White or Pink. 3/6 yard. Width 42/44 inches

OILED SILK—Yellow. Approx. 33" wide, 3/9 yard
Green. ,, 36" ,, 4/6 ,,
7½d. Boxes—Green Oiled Silk, 4/6 dozen.

		Doz.	Gross
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VALVES ,, ,,	For boat-shape Feeders	1/-	11/-

And All Kinds of Surgical Rubber Goods.

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Vulcanite DOUCHE FITTINGS
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Cheap lines in NAIL FILES (bone and steel) carded.
SAFETY RAZORS and spare blades.
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TOOTH BRUSHES
at low prices.
And all kinds of Surgical and Hygienic Rubber Goods.

THE WILKINSON SWORD CO. LTD.,

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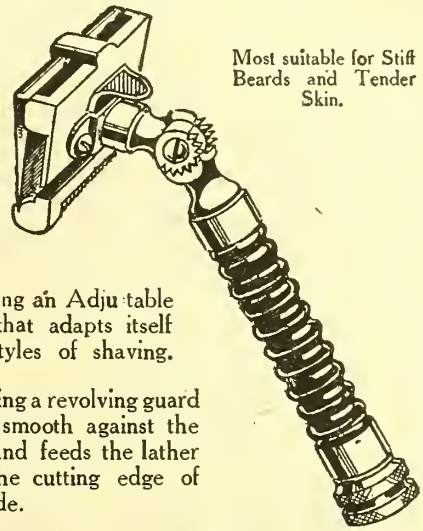
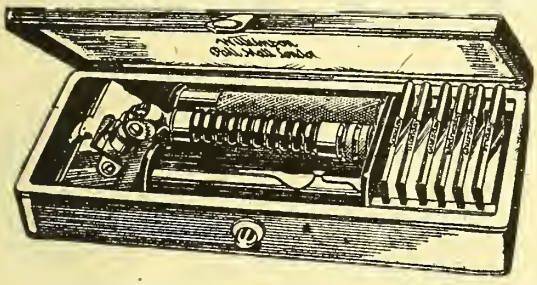
WILKINSON NEW MODEL SAFETY SHAVER.



Most suitable for Stiff Beards and Tender Skin.

In neat Leather Case with SEVEN real lasting SOLID BLADES.

THERE'S A POWER BEHIND EACH EDGE.



Possessing an Adjustable Head that adapts itself to all styles of shaving.

Possessing a revolving guard that is smooth against the cheek and feeds the lather on to the cutting edge of the blade.

THE MOST UP-TO-DATE SHAVER IN THE WORLD.

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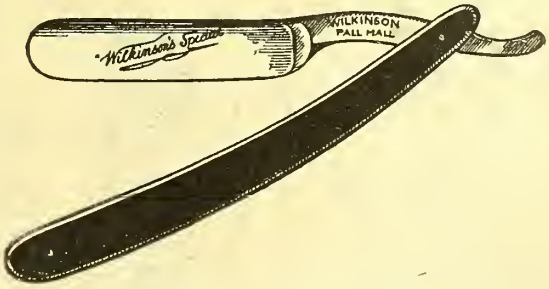
SWORD STICKS

IN LARGE VARIETY.

Are famous throughout the world, and are renowned for their SUPERFINE EDGE.

"SPECIAL." "W. & CROWN." "LANCE."



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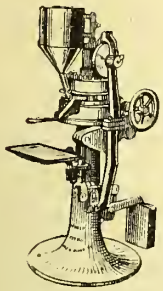
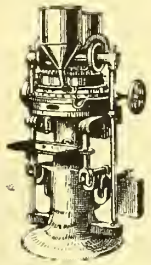
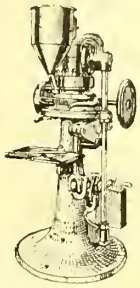


"B" ROTARY.
Fitted with 16 dies and 32 punches up to ⅝" diameter. Output 400-500 per minute. Silent, economical and efficient. Floor space 28" × 38"



"B.B." ROTARY.
Output 1,000-1,200 per minute. Suitable for work up to ½" diameter. Punches are interchangeable with the "B" Rotary Machine.
Floor space 37" × 42"



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For heavy work up to ⅞" diameter. Designed for tablets that require great pressure. Adjustments for weight and pressure can be made while the machine is working.

Uppermost in your mind to-day is PRODUCTION and production costs. Write us for further particulars of STOKES ROTARY MACHINE; their production average in comparison with running costs will interest you.

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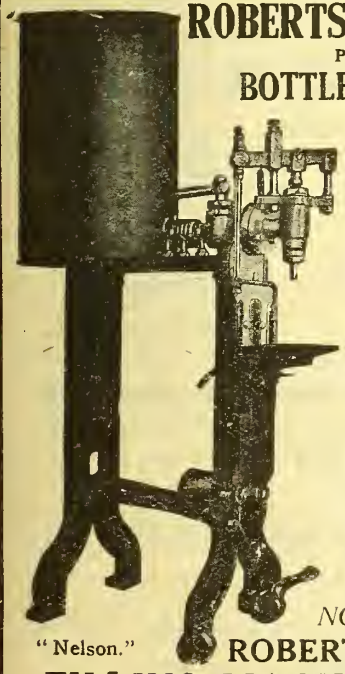

ROBERTS' ORIGINAL
PATENT
BOTTLE-FILLING MACHINES

Don't waste money on imitations, buy **Roberts' Machines** which actually **Created the Records** for **CLEANLINESS SIMPLICITY and Rapidity in Bottle Filling.**

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OUR LATEST PATENT "ALPHA," PRICE £14, WILL FILL 10 GROSS BOTTLES PER HOUR.

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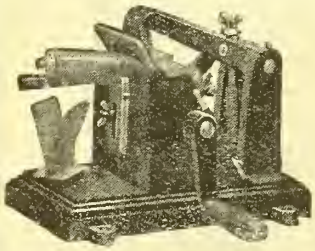
BY USING THE
"CENTRAC"
FILLING MACHINES
For TUBES, POTS, JARS and BOTTLES



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delivers a supply of bottles clean, bright and dry, just as required.

DRYER can be designed to take any quantity and size of bottles.

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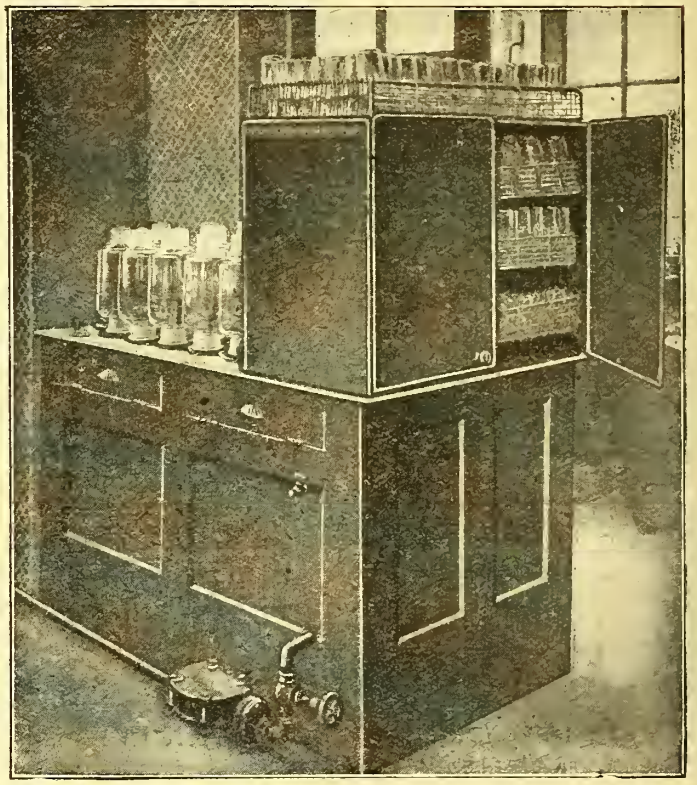

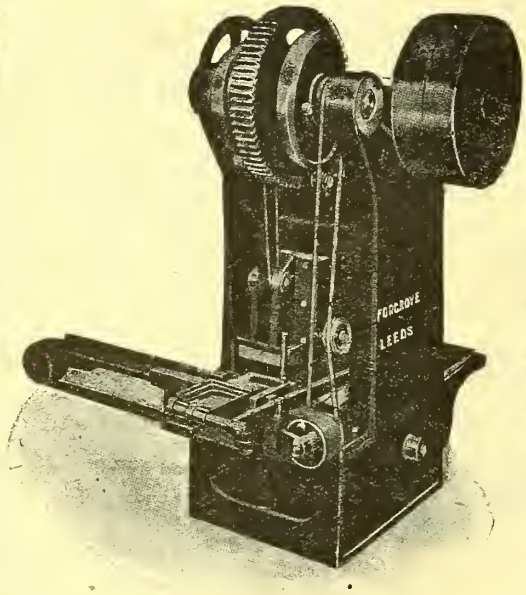

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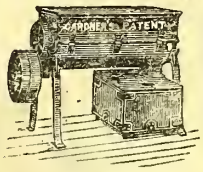

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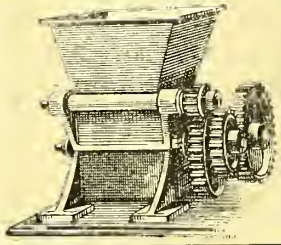

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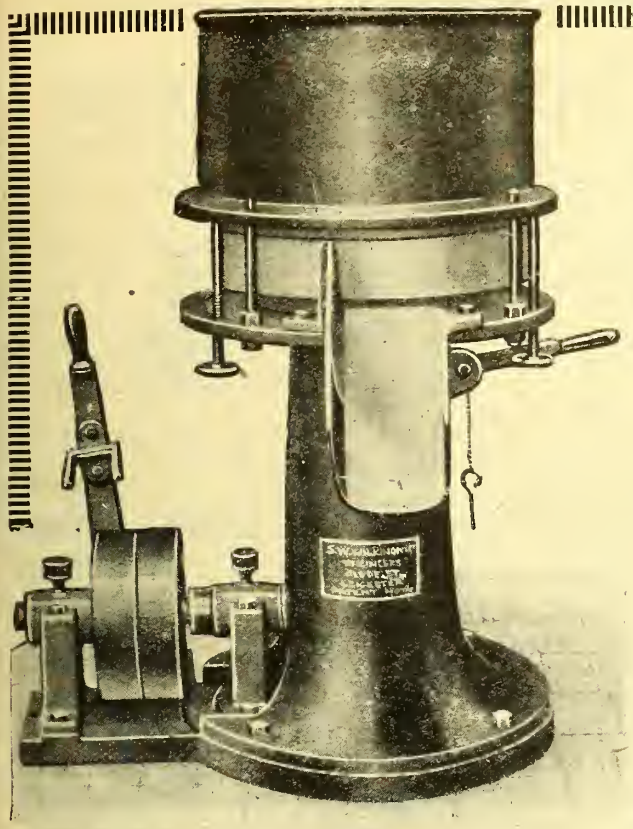

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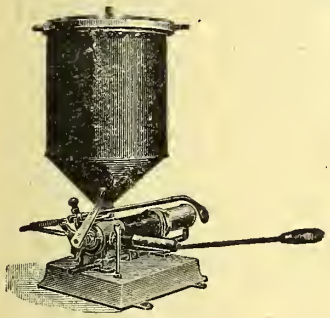

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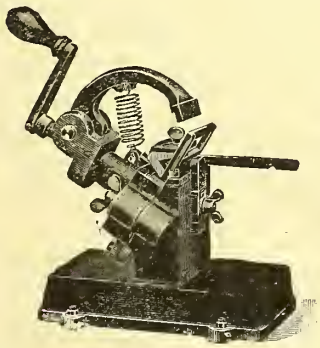

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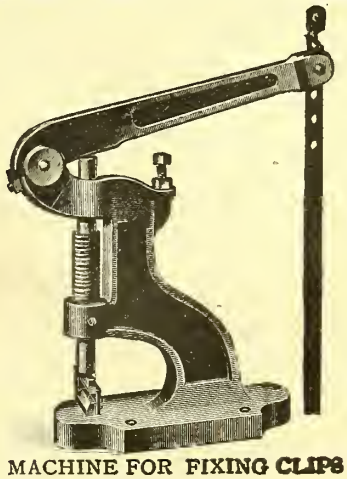

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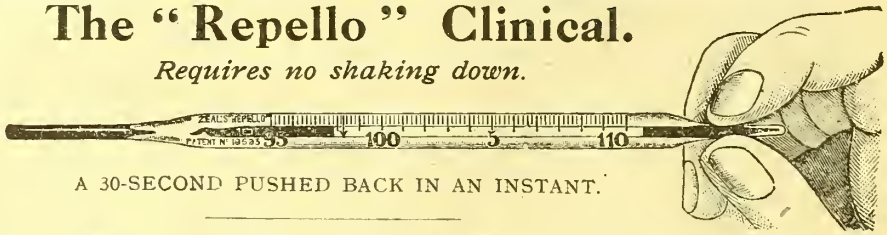

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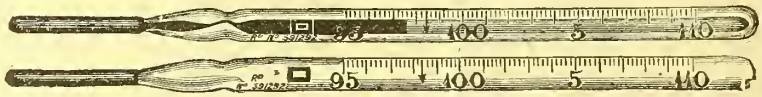

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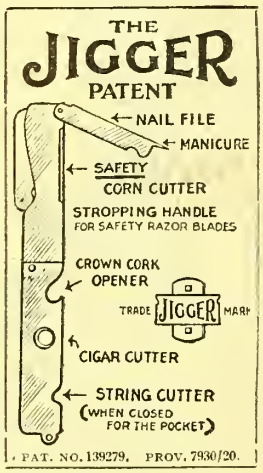

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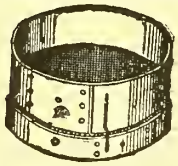

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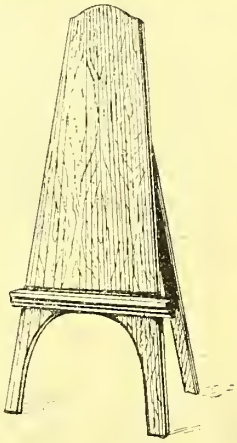

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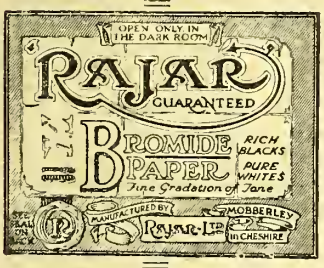

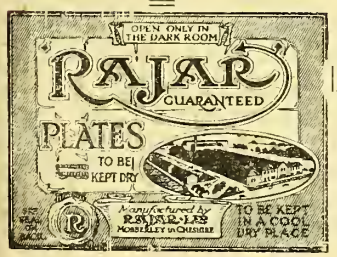

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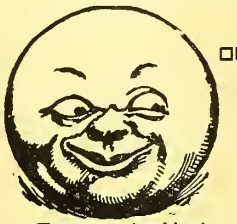

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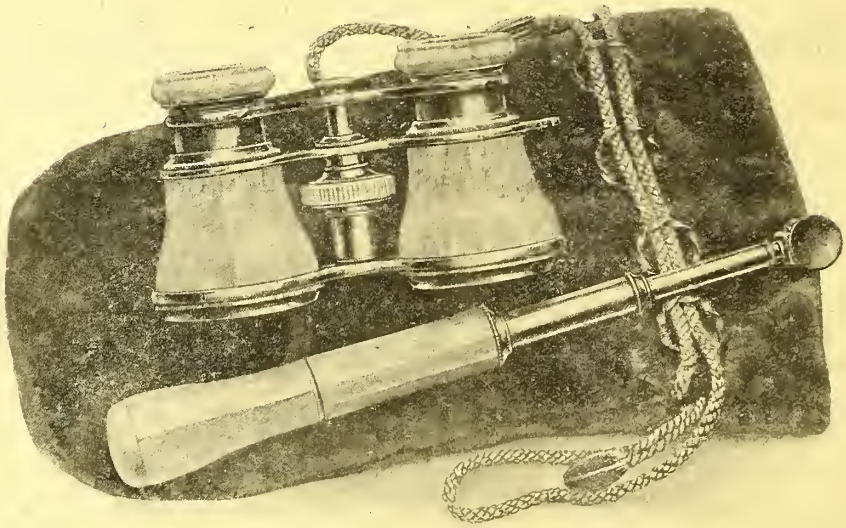

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42 CANNON ST. LONDON, E.C.4.

JANUARY 1, 1921

This Supplement is inserted in every copy of The Chemist & Druggist

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The clerical work in connection with the posting of spare copies of the Coloured Supplement week by week has increased to such an extent that we have been compelled to reorganise our system of distribution. Our readers will please note, therefore, that, in future, instructions can be accepted for not more than six successive issues of the Supplement at a time, and that in every case

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Re CARMOL, LTD. (late of Washington Street).

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EDWARD L. STEVENS & CHAMPION are instructed to remove and Sell by Auction on WEDNESDAY, January 5th, at 11 o'clock punctually, the extensive

MANUFACTURING CHEMISTS' STOCK IN TRADE.

LABORATORY GOODS, including Drugs, Essential Oils, Acids and Tinctures, Powdered Drugs,

750 GROSS CARMOL SPECIALITIES,

Bulk Goods, including Soda Bicarb., 8 cwt. Paraffin Wax, 10 cwt. Petroleum Jelly, Glucose, 100 gallons Oils and Spirits,

130 GROSS NEW BOTTLES,

Brills, Lime Creams, 6-, 8-, and 10-oz. Graduating Dispensing, Hub Ovals, Blakes and Panels, 180 doz. Opal Cream Pots, 55 gross Collapsible Tubes, Pill and Powder Boxes, large stock of printed matter, PRINTING PLANT, FILLING AND TABLET-MAKING MACHINERY, OFFICE FURNITURE and Workroom Fittings, and Effects.

THE FIRST LOT OFFERED WILL BE THE GOODWILL OF THE COMPANY,

together with the Valuable Formulæ.

On view, Tuesday, January 4th.

Catalogues of Messrs. HACKETT, RADLEY & JOHNSON, Chartered Accountants, 36 Cannon Street, Birmingham; PARKIN STANLEY BOOTH, Esq., Association of Manufacturing Chemists, Ltd., 31 Kimberley House, Holborn Viaduct, London, E.C. 1; Messrs. THOMAS COATES & CO., Solicitors, 57 and 58 New Street, or the Auctioneers, 71 Temple Row, both of Birmingham.

BRETT & CO.

All Valuations have the personal attention of F. J. Brett, M.P.S.

Transfer Agents & Valuers,

73 LAUREL ROAD, LEICESTER.

Telephone: 1934.

We have CASH BUYERS for all Classes and Sizes of Business from £500 to £5,000 and upwards.

PARSON C. BAKER,

Pharmaceutical Chemist, M.P.S.

4 CYPRUS ROAD, CHURCH END, N.3

WM. ROOKE ROBERTS, M.F.S., F.S.M.C.

174 VICTORIA STREET, S.W.1. Tel.: Victoria 27

Valuers for Purchase, Sale, Probate, Income Tax, Balance Sheet, &c.

Recommended by the British Drug Houses, Ltd., Messrs. Meggeson, Ltd., Messrs Barclay & Sons, Ltd., and many other leading Wholesale Houses.

Valuers to the Association of Manufacturing Chemists.

Make a Speciality of the examination and reporting fully to Vendors or Purchasers as to Value, Prospects, Conduct, &c., on Moderate Terms.

Registers kept of Businesses for Sale. No Charge to Purchasers. Enquiries invited Personal attention given in all cases.

ERNEST J. GEORGE

Stocktaking and Valuation for all purposes.

Chemists' own Inventories Priced and Analysed.

202 BIRMINGHAM ROAD, WALSALL, And 26 LANGSIDE RD., NEWLANDS, GLASGOW.

BUSINESSES WANTED.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

HANTS, DORSET, DEVON.—Urgent.—Chemist is desirous of purchasing a Business in the above counties; takings not less than £1,000 per annum; neglected Business or Drug Stores not objected, if capable of increase; would also be pleased to consider partnership in larger concern; cash available and bankers' reference given. "Chemist," c/o Eggett, Elmhyrst, Farnham, Surrey.

BUSINESS wanted immediately; Lancashire or Yorkshire preferred; cash available £1,000. Fullest particulars, in confidence, to Heaton, Woodside, Queen's Road, Accrington.

PHARMACIST, with capital, desires to purchase a small Business in a Western County; a working partnership, with view to early succession, would be entertained; Bankers' reference; strictest confidence. Apply 238/33, Office of this Paper.

URGENTLY wanted, for ex-Service man, Chemist's Business or Drug Store, London, with living-rooms; please give full particulars in confidence. Write 238/29, Office of this Paper.

YOUNG man wants Pharmacy; would not object to any elderly person wishing to dispose of his business, and who would be desirous of devoting part-time to same; would pay reasonable price (cash) for same. Reply, in confidence, to 236/37, Office of this Paper.

SALES BY AUCTION.

VALUABLE FREEHOLD CHEMIST'S SHOP (with Goodwill) in STOCKPORT, to be SOLD by AUCTION by

Mr. H. B. FORD,

at the Warren Bulkeley Arms Hotel, Stockport, on FRIDAY, the 14th day of January, 1921, at 7 o'clock in the evening, prompt, subject to the Conditions of Sale to be then and there produced,

All that Messuage or Chemist's Shop, 48 Castle Street, Edgeley, Stockport, in the County of Chester, together with the site containing 86 square yards or thereabouts,

And also all that perpetual yearly rent or sum of £2 11s. payable out of adjoining premises.

The property is freehold, and the sale will include the goodwill of the old-established Chemist's Business as a going concern carried on for very many years by the late Mr. R. T. Forbes.

The Stock, Fixtures, Fittings, and Utensils will be valued by the Auctioneer, and the purchaser will be required and entitled to take over the same at such valuation.

The business has been a large and increasing one, and the premises occupy a most prominent position in the main thoroughfare of Edgeley. There is ample scope for further extension, and the sale presents a unique opportunity to investors.

For further particulars apply to the Auctioneer, 59 Wellington Road South, Stockport (Tel. 2279), or to Henry Green, Solicitor, Queen's Buildings, St. Peter's Square, Stockport.

LEGAL.

NOTICE.

WILLIAM LESLIE, Deceased.

ALL Persons having any claims against the Estate of the above-named deceased late of No. 5 Castle Street Ludlow and who died on the 22nd day of December 1920 are requested to send full particulars of such claims to us the undersigned at once.

Dated the 24th day of December 1920.

CLARK & CO.,
Solicitors for the Administratrix.

Ludlow.

AGENCIES.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

LONDON Wholesale Chemists, with West-End offices and warehouse, having Travellers covering London, South of England, and East Coast, are open to handle first-class lines on commission; established connection with Chemists, large Stores, etc. Apply 238/28, Office of this Paper.

CHAPMAN & CO.'S CATTLE OILS, LTD., Hamilton Street, Grimsby, require Agents for their well-known Veterinary Preparations. Write for full particulars.

WANTED, Sole Agency of first-rate Speciality or Proprietary by a well-known Sundry house in the provinces, covering large ground in industrial districts. Particulars to 36/55, Office of this Paper.

PARTNERSHIPS.

PARTNERSHIP required in Chemist's business, or would buy same outright for cash; Manchester or Southport district preferred. Reply, with full particulars in confidence, to 236/370, Office of this Paper.

We desire particularly to draw the attention of Colonial and Foreign Subscribers to the fact that in cases where they require partners, agents or assistants, or wish to sell their businesses, an advertisement in this Supplement, placed in every copy of "The Chemist and Druggist," should be the readiest means of helping them to attain their object. The tariff for such announcements is given under the appropriate headings in the Supplement. Instructions and remittances can be sent to us direct or through the advertisers, correspondents in this country.

BUSINESSES FOR DISPOSAL.

6s. for 50 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

LONDON, W.—Good-class residential district; turnover about £50 weekly; excellent stock and fittings; good profits; beautifully situated, opposite park; large house, with large rooms, bathroom, etc.; rent £85; top storey complete flat sublet, £52 per annum; garage at back; 19 years' lease; price about £2,000; lump-sum offer considered; bankers' reference imperative. Apply 238/38, Office of this Paper.

NEWCASTLE-ON-TYNE.—High-class suburban Business and property; returns £2,200; good house, nine rooms; price, business £1,600, property £2,500; half mortgage at 5 per cent.; banker's references required. "Ajax" (232/27), Office of this Paper.

S.E. COAST.—Cash Retail Business for Disposal, situated in busy main thoroughfare; smart, attractive shop, well stocked and fitted; long lease; excellent prospects for qualified man; sound reason for disposal. For full particulars apply, with bankers' reference, to 238/15, Office of this Paper.

DRUG STORES, lock-up shop, for sale in Leeds; low rent; returns £30 per week; good opening for N.H.I.; price £700; only genuine buyers need apply. Apply 238/34, Office of this Paper.

FOR Sale, provincial Wholesale Drug and General Business; capital required, about £7,000; a progressive interest could be acquired for an initial investment of about £3,000; the business is capable of considerable extension. Apply "Wholesale" (231/22), Office of this Paper.

FOR SALE.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

FINEST Californian Honey, 60-lb. tins, 1s. lb.; Camphor, ¼-oz. squares, 7 lb. at 10s. lb.; best Martucci Liquorice, 2-oz. sticks, 7 lb. at 3s. 2d. lb.; net cash; delivered free London. Leonards, 42 "Albion House," New Oxford Street, W.C. 1.

4 1-lb. bottles Ol. Lavand. Ang. Mitcham (Warrick); whole or part; what offers? Reith, Chemist, Cults, Aberdeenshire.

SITUATIONS OPEN.

RETAIL.

6s. for 40 words or less; 6d. for every additional 10 words or less, prepaid.

The **Advertiser** may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of **1/-**.

BRADFORD.—Assistant required, unqualified. Apply, stating age, experience, etc., to 238/7, Office of this Paper.

COVENTRY.—Required, qualified Superintendent. Please state fullest particulars as to age, references, salary, etc., photo, if convenient, to Bamptons Cash Chemists Ltd.

KING'S COLLEGE HOSPITAL, Denmark Hill, S.E. 5.—Wanted, qualified Junior Assistant Pharmacist; Hall qualification not sufficient. Apply to E. B. Fairweather, Chief Pharmacist, King's College Hospital.

LONDON.—Outdoors; middle January; a competent, experienced, qualified Assistant, with undeniable references; Window-dresser, quick and accurate Dispenser; commencing salary £5; a permanency for the right man. Applications in writing, giving references, to H. Lloyd, 260 Upper Street, N. 1.

LONDON (Suburb).—Wanted, at once, qualified Senior Assistant for good-class Dispensing business; experienced Salesman, thoroughly reliable, and capable of taking charge when necessary; married preferred; exceptional references required. Apply 237/23, Office of this Paper.

LONDON, W.—Unqualified Assistant required at once for Counter and Stock; outdoors; no Sunday duty; moderate hours. Apply, giving full particulars in first instance, to 237/31, Office of this Paper.

LONDON, W.—Unqualified Junior (male) for a Dispensing business; outdoors. Apply, in first instance by letter, "X. Y. Z.," c/o British Drug Houses, 22 Graham Street, City Road, N.

SOUTH CROYDON.—Junior Assistant wanted; age 19-20; good Stockkeeper; knowledge of Photography. S. A. Noble, Selsdon Road.

WREXHAM DISTRICT.—Wanted, reliable, qualified Assistant; Welsh-speaking an advantage; preference given to ex-Service man; progressive salary on increased returns. Full particulars, 237/37, Office of this Paper.

A VACANCY will shortly occur in a large London Pharmacy for a lady Dispenser (Hall); applicants please give full particulars as to experience, age, salary required, etc. Apply 237/22, Office of this Paper.

ASSISTANT, unqualified, single, wanted in a month's time in a good-class country Retail Dispensing and Photographic business; knowledge of gaslight printing desirable. Apply, stating salary (outdoors) and full particulars, to "A. B. C." (233/32), Office of this Paper.

ASSISTANT required, chiefly for Dispensing, but some Retail knowledge and Photographic necessary; age 22-25; must be quick and accurate. Reply, giving full particulars of experience and salary expected. Applicant not answered in three days declined. C. J. Roe, Chemist, Epsom.

ASSISTANT (outdoors), 25 to 30, single, for quick cash business; must be good Window-dresser and well up in Photographics. In reply, please give full particulars as to age, references, and experience, to G. O., c/o Hayes & Co., 142 Bedford Hill, S.W. 12.

ASSISTANT wanted (immediately) in Welsh coal district; must be thoroughly reliable and trustworthy. Apply, giving full particulars, to David George, Pharmacist, Pentre, Glam.

CHEMIST, qualified, wanted to manage branch shop. Apply, stating age and salary required, with copies of not more than two recent testimonials, to Co-operative Society, Newgate Street, Newcastle-upon-Tyne.

JUNIOR (unqualified) Assistant wanted for a high-class Dispensing business; live indoors. Apply Buddles, 46 Churton Street, London, S.W. 1.

JUNIOR Assistant wanted (immediately) for N.H.I. Dispensing and Counter; lady or gentleman will suit, but must be energetic, thoroughly reliable, and of good appearance and address. Full particulars in first letter, with photo if possible, Walker, Chemist, Nantwich.

JUNIOR Assistant for Light Retail and Dispensing business (at once). Apply, with full particulars, to Rex Blanchford, Chemist, 76 High Street, Wimbledon, S.W. 19. 'Phone: 543 Wimbledon.

PARKE'S DRUG STORES LTD. have a vacancy for an unqualified Assistant, who must be energetic, a reliable Dispenser, good Window-dresser, and Salesman. Applicant should be resident in London or suburbs, and could be interviewed at 65 Harmood Street, Camden Town, N.W. 1, any morning between 10 and 11 o'clock.

PROFITABLE spare-time work (clerical); stamp. G. L. C., Ltd., 24 Bishop's Road, Fulham, S.W.

QUALIFIED lady Dispenser required immediately; must be young, energetic, a reliable Dispenser, and able to assist at Counter; applicant should be resident in London or suburbs. Apply, giving age, height, and full experience, to 29/280, Office of this Paper.

QUALIFIED man wanted, between 30 and 40 (not older), for London, S.W. suburb; must possess initiative, and be experienced in modern, up-to-date methods of cash business; replies should give recent reference, details of experience, age, and salary expected to commence. Apply 238/35, Office of this Paper.

THE Plymouth Co-operative Society, Ltd., have vacancies in their Pharmacy and Photographic materials branch for a Pharmacist (male) and one unqualified Assistant (male). Applications, stating age, experience, and wages required, to be addressed to the Finance Committee, Co-operative Society, Ltd., 17 Frankfort Street, Plymouth (endorsed "Chemist"), by January 6th, 1921.

UNQUALIFIED male Assistant wanted (outdoors) for good-class Dispensing business; must be quick, accurate, and reliable; no N.H.I. Dispensing. Apply, giving full particulars of experience and salary required, to Price, Chemist, 2 Guildford Road, Woking, Surrey.

UNQUALIFIED Assistant (male) required at once; accustomed to brisk Counter business and N.H.I. Dispensing. Apply, personally or by letter, giving full particulars and salary required, to J. Patterson, 52 Ilford Lane, Ilford.

UNQUALIFIED Junior for West London; outdoors; no Sunday or night duty. Apply Lewis & Burrows Ltd., 146 Holborn Bars, E.C. 1.

WANTED, unqualified Assistant in good-class Family and Dispensing business; good references essential. Apply, stating age, experience, salary required, Harrison, Chemist, Grayshott, Hindhead, Surrey.

WANTED, a qualified Chemist, about 30 years of age, to manage a growing middle-class business in the Midlands. Apply in the first instance, by letter, to G. Steven & Co., Manufacturing Chemists, Manchester, giving details of experience, references, and salary required.

WANTED, qualified lady; good Dispensing and Counter experience necessary; Welsh-speaking an advantage. Full particulars, 237/370, Office of this Paper.

WANTED, an active and energetic qualified man, not afraid of work, for a branch business in a working-class district in North London, with the prospect of purchase or partnership. Apply, by letter, stating salary, experience, and references, to "M.P.S.," 13 Park Hill, S.W. 4.

WHOLESALE.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

CHEMIST.—An old-established firm of Wholesale Druggists, South London, have vacancy for a trained Chemist who has had good practical experience in the Wholesale trade, and has been used to supervise manufacture, and can undertake standardisation, analyses, etc. Full particulars, stating salary required, to 48/19B, Office of this Paper.

EXPERIENCED man wanted, London, E., for manufacture of Alkaloids. Apply, by letter, stating age, experience, and salary required, 37/15T, Office of this Paper.

EXPERIENCED man required (at once) for Coating (all kinds) Tablets and Pills; London, E. Apply, by letter, stating age, experience, and salary required, P.C.B. 47/2, Office of this Paper.

JUNIOR Assistant in Laboratory of Wholesale Manufacturing Chemists (Scotland); one with knowledge of Pharmaceutical Assaying preferred. Apply, stating age, experience, salary required, etc., to 33/28R, Office of this Paper.

LABORATORY Assistant; must be capable, energetic, clean, and accurate worker; good prospects for first-class man. "Manchester" (41/4V), Office of this Paper.

PRICHARD & CONSTANCE (WHOLESALE), LTD., require a live, capable Salesman for the South of England and Wales, for the sale of Amami Toilet preparations. Apply, with full particulars, references, and terms, in confidence, to 469 Holloway Road, London, N. 7.

REPRESENTATIVES.—Live men required, calling on Chemists, Druggists, and Opticians, London and districts, to carry easy-selling side-line; small sample; big commission. Apply Manager, 335 Ulster Chambers, 168 Regent Street, W.

SALES DEPARTMENT.—Manufacturing Chemists require (immediately) Assistant for their Sales Department; age 24-30; qualification not essential; must be good Correspondent and have had good business training. Apply, by letter, to 48/20B, Office of this Paper.

SALES Manager required by manufacturers; Chemists' and Perfumers' Sundries; patents; state experience of home, Colonial, and foreign markets, naming salary required, and when at liberty. Particulars in confidence to 36/54, Office of this Paper.

TRAVELLERS required for selling proprietary Ointment, Lancashire and Yorkshire, Northumberland, Durham, Cumberland, Westmoreland, Midlands, South Wales, London, Eastern and Southern Counties; part expenses and commission; must have good connection. Apply 24/43, Office of this Paper.

WANTED, Canvassers, on commission, with good connection amongst Chemists. Apply, by letter, "Japlin," 2 and 4 Tudor Street, London, E.C. 4.

WORKS Manager wanted by a well-known firm of Perfumers and Toilet-requisite Manufacturers; applications to state age, previous experience, salary required, and furnish copies of testimonials. Apply 238/13, Office of this Paper.

SITUATIONS OPEN.

(Colonial, Indian and Foreign.)

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

AMSTERDAM.—Sales Organiser and competent English Correspondent required for an Amsterdam Export office to handle export business to Great Britain, Colonies, and United States; previous experience with English or French Perfumery and Soap firms essential condition, with ability to write good advertising copy; technical knowledge an advantage; good salary and prospects to energetic and really capable man.

SPANISH-SPEAKING TRAVELLER; must have had Pharmaceutical training or be a Pharmacist.

Please apply to Swiss Mercantile Society, Employment Department, 24 Queen Victoria Street, E.C. 4.

ITALY.—Qualified Assistant, with good experience, and, if possible, knowledge of French, required for Naples. Apply, with full particulars, to H. Roberts & Co. (33/27R), Office of this Paper.

STRAITS SETTLEMENTS.—Required (immediately), Assistant, young, unmarried, with Chemist's and Optician's qualifications; four years' agreement; passage paid out and home; salary first year £560, second year £630, third and fourth years £700; six months' leave of absence on full pay at end of agreement if time is renewed. Apply "W. C. H.," c/o Burgoyne Burbidges & Co., Ltd., East Ham, E. 6.

SOUTH AFRICA.—Qualified Assistant required, about 30 years of age; single; must have had first-class Counter experience, preferably in London; passage paid out; three years' agreement; salary £35 per month first year, £37 10s. second, £40 third. Apply, by letter only, to "CMN," 25 Arrol Road, Beckenham, Kent.

RETURNING PHOTOS, &c.

Advertisers in this section who receive portraits and copies of testimonials from applicants with a stamped addressed envelope for reply are reminded that the undue retention of these often means a hardship to the sender. All personal documents should be returned as promptly as possible after perusal.

SITUATIONS WANTED.

[HOME.]

RETAIL.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A CAPABLE and experienced Chemist desires responsible position, Manager, Locum, etc.; 15 years' references; energetic, resourceful, trustworthy. 13 Coniger Road, Fulham, S.W. 6.

A DENTIST and Pharmacist (both Registers); experienced, gentlemanly; married, no family; particulars esteemed. "Farmadent," The Willows, Talke, Staffordshire.

A GOOD OFFER?—Qualified (26) desires change; Manager, Assistant; business builder; experienced, trustworthy, progressive; middle-class; Salesmanship, Dispensing, Photography. 238/40, Office of this Paper.

A LADY Assistant (22); unqualified; 6 years' high-class experience N.H.I. Dispensing, Counter, and Stock; excellent references; London or suburbs. 238/200, Office of this Paper.

A QUALIFIED Chemist, as Manager or Assistant; 20 years' experience; Liverpool preferred; permanency desired. "Codex" (238/9), Office of this Paper.

A QUALIFIED Optician and Pharmacist, M.P.S., F.S.M.C., requires position; London and country experience. A. E. Thompson, Loakes House, High Wycombe, Bucks.

A QUALIFIED Chemist, tall, desires management; many years' Lancashire experience. Apply "Statim," 12 Linwood Street, Greenheys, Manchester.

A YOUNG man, of 18½ years, of good education, desires an appointment in Retail Pharmacy; has had 1½ years' experience, including six months in N.H.I. Dispensing, and previous to this a good training in Inorganic Chemistry at a well-known London school. Address "Spes," 205 Rotherhithe New Road, S.E.

AS Branch Manager or Assistant (30); tall; first-class all-round experience; disengaged; moderate salary. "M.P.S.," The Mount, Henlade, Taunton.

AS Manager; qualified, experienced; strictly sober habits; or Locum, day or week; disengaged. 39 Church Avenue, East Sheen.

ASSISTANT (lady); 21; four years' experience good-class Dispensing and Retail; excellent references; disengaged middle January. E. M. Asbrey, c/o Howells, Chemist, Pembroke.

ASSISTANT; 20; North England preferred; well educated; 4½ years' experience; excellent testimonials. Carruthers, Mountain View, Prospect, Whitehaven.

ASSISTANT, unqualified, 20, desires post; good experience in Retail, Dispensing, and Photography; excellent references; Lancashire preferred, but not essential. S. Howarth, 98 Edward Street, Bury, Lancs.

ASSISTANT or Locum; middle-age, single, capable; any class business; well recommended; easy terms. "Delta," 27 Dryden Street, Nottingham.

ASSISTANT, unqualified; experienced Dispenser; good Counterman, Photography; energetic; age 40; permanency; disengaged. "G.," 129 Marina, St. Leonards-on-Sea.

DISENGAGED shortly; Dispensing and Counter; 20 years' best experience; not Army. "Medinal" (P.C.B. 47/8), Office of this Paper.

DISENGAGED; qualified; 37; 15 years' good all-round experience. A. Young, 9 Daleview Road, Stamford Hill, N.

DISENGAGED January 8th; qualified; 47; experienced Dispenser; permanent or Locum. "Pharmacist," c/o Messrs. Desmonds, Chemists, 55 Freemason Road, Custom House, E.

DISENGAGED; unqualified; 42; business ability; East End or West End, and references bear investigation. Fletcher, 11 Kingsdown Road, Upper Holloway, N. 19.

DISPENSER; Wholesale and Retail experience. Whitehead, 3 Bevan Street, Islington, N.

DISPENSER (Hall), daily, whole or part time; experienced; London or suburbs. Miss B. Warrington, 48 Buckleigh Road, Streatham.

DISPENSER-BOOKKEEPER, experienced (Hall) desires post with Doctor or Institution, near London. E. P. C., 61 Vernham Road, S.E. 18.

EASTBOURNE or District preferred.—Qualified; 28; good all-round experience Dispensing, Counter, Photography. Carpenter, Albion Cottage, Polegate, Sussex.

GIRL Student-Apprentice (18), one year's College training, desires post in London area. Wilson, 9 Ridge Road, N. 8.

JUNIOR Assistant requires position in high-class Pharmacy; 4½ years' first-class Dispensing and Counter experience; good references. B. Freeman, 1 Heywood Street, Manchester, N.

LADY Dispenser (Hall) desires post; Doctor, Chemist, or Infant Welfare; in or near London. Reply "S.," 31 Lewisham Park, S.E. 13.

LADY Dispenser, unqualified, desires post immediately as Assistant; Liverpool district; three years' experience Surgery and shop. Apply 236/36, Office of this Paper.

LADY Dispenser (Hall) desires post, whole or part time, London; experienced; testimonials. E. T., 14 Broxholm Road, West Norwood.

LADY Dispenser (Minor) desires post with Doctor, Institution, or Chemist; no Counter work; London district preferred. Apply 238/6, Office of this Paper.

LOCUM; disengaged; reliable. Apply "M.P.S.," Messrs. Southall Bros. & Barclay, Lower Priory, Birmingham.

LOCUM; highest references; well recommended; winter terms. Brown, 74 West Hill, East Putney, London, S.W. 15.

MANAGER, qualified, married, disengaged; long and wide experience in all branches; town or country; good Prescriber and smart Window-dresser. Details and salary to "Omar," 26 Fox Hill, S.E. 19.

MANAGER or Assistant, qualified; town or country; highest testimonials for efficiency; moderate salary; disengaged. "Pharmacist," 22 Ellison Road, Barnes, S.W.

MANAGER or Assistant; thoroughly experienced in all branches of Retail; good appearance and address; highest references; qualified; abstainer; 30; ex-Service. 237/32, Office of this Paper.

PART-TIME situation wanted, evenings and Saturday; young, qualified man studying Optics; good experience Counter, Dispensing; South London preferred. "B." (237/6), Office of this Paper.

PART-TIME.—Qualified Pharmacist desires part-time situation in City or S. London; excellent references; disengaged. S. S., 98 Greyhound Lane, Streatham Common, S.W.

PHARMACIST (29), Manager or Assistant; married; good all-round Dispensing, Photographic, Optical, and Retail experience; excellent references; disengaged January 22nd. Please state full particulars and salary offered to Chemist, 19 Moor Road, Rushden, Northants

QUALIFIED Chemist (31), nine years' Manager large business, and indentured apprentice (16), passed preliminary, open for engagement, separate or together; both tall, energetic, reliable; good references. Apply "Chemist," 25 Carlton Terrace, Wakefield.

QUALIFIED; 34; single; ex-service; active; good references; disengaged. Write, with terms, Babbage, 9 Alverton Terrace, Truro.

QUALIFIED (27), single, present Branch Manager, requires change, similar position, or as Senior; good references; 10 years' experience Dispensing, Counter, and Photographic; Bristol or Bath essential. 238/36, Office of this Paper.

RELIABLE Assistant, unqualified, 50, married, open to immediate engagement; experienced. Reply W. P., 72 Tremadoc Road, Clapham, S.W.

UNQUALIFIED; 30 years' experience best-class Dispensing and Retail; Birmingham district. Smith, 30 Bedford Street, Coventry.

WHOLESALE.

2s. for 18 words or less; 6d. for every additional 10 words or less, prepaid.

The Advertiser may, if preferred, have replies addressed to this Office, and forwarded on payment of an additional charge of 1/-.

A REPRESENTATIVE, lately with noted house, has live connection amongst high-class Chemists in London and suburbs; open to represent first-class firm on salary and commission basis; highest credentials. 238/20, Office of this Paper.

EXPERIENCED Pill- and Tablet-coater seeks engagement; sound knowledge of every style of coating; age 24; single. G. Tugwell, 53 Rutland Road, Hove.

TRAVELLER, with large connection Chemists and Stores, Northern Counties, Scotland, Ireland, and Wales, desires shortly representation of firm of repute; salary, expenses, and commission. "Enterprise" (232/25), Office of this Paper.

UNIVERSITY man, ex-Service, young, energetic, requires position of trust with Chemical Merchants or Manufacturers; clerical, part-clerical, or any capacity; splendid training in Technical and Commercial Chemistry. Thomas, 82 Ridley Road, Forest Gate, E. 7.

YORKS AND LANCS.—Influential Salesman, 36, resident on ground, strong personal connection, open for Packed or Proprietary lines on commission and small expenses; responsible houses only recognised. "Confidence" (P.C.B. 47/7), Office of this Paper.

I WILL INVEST £200.—Position wanted with sound progressive firm. I hold "Major" and A.I.C. qualifications, have had wide general Manufacturing, Speciality, Buying, Travelling, Control, and Executive experience. Will also give full rights (excepting Royalty) in Patent of high-class product of unlimited prospects. "R.," c/o Mr. R. F. Walton, Globe Tank Co., 86 Gray's Inn Road, W.C. 1.

MISCELLANEOUS.

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The following Extract from The Daily Mail of Dec. 30 will interest our readers.

"DEMAND NET SALES

'Chemist & Druggist' Figures

This is one of the times of year when advertisers and advertising agents are arranging their future budgets—'appropriations,' as they are called.

It is also the time of year when newspapers that are unable to publish net sale certificates are particularly voracious and mendacious. The amount of wriggling going on all over the country at this moment . . . . is amusing and amazing.

How different is the attitude of that leading trade organ, the *Chemist and Druggist.* Messrs. Thomas Christy and Co., of 4-12 Old Swan Lane, London, E.C. 4, are a well-known firm of distributors. They distribute, among other proprietary articles, 'Forhans-for-the-Gums' and 'Musterole' (for bronchitis, etc.). As such, they have a right to know the sale of the *Chemist and Druggist,* in which they advertise, and they wrote to the proprietors of that leading organ for the necessary information. In reply, Messrs. T. Christy and Co., received a six months' certificate, signed by Messrs. Jackson, Pixley and Co., chartered accountants, of 58 Coleman Street, London, E.C. 2, proving that the net sale of the *Chemist and Druggist* is ten thousand six hundred and sixty copies weekly, all representing subscriptions paid in advance.

Messrs. Christy and Co. remark: 'Considering the number of chemists in the United Kingdom, the certificate registers an excellent volume of net sales. Besides strengthening your much-wanted campaign, to a small extent this information may probably interest others who have, perhaps, not yet made this inquiry themselves.'"

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Telephone: Central 3617.

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